WEEK DOI 18 FEBRUARY 81 00001D - 00757D

MIRMS NIEW

CLASSIFIED ALERTING BULLETIN

Section D:

FOOD DETERGENTS

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Rochdale House 128 Theobalds Road

London WC1X 8RP England

ABSTRACTS

INDEXES

II - PATENTEE

- BASIC NUMBER

VII - PATENT NUMBER

COUNTRY
BRAZIL
CZECHOSLOVAKIA
DENMARK
W.GERMANY
-DAS
-OLS
FINLAND
UNITED KINGDOM
ITALY

NO RO

DAS	18 DEC
OLS	18 DEC
LAND	28 NOV
ITED KINGDOM	31 DEC
LY	20 OCT
PAN	
Examined	27 NOV
RWAY	1 DEC 80
MANIA	JANUA
ITED STATES	
Reissues	9 DEC 80
Patents	9 DEC 80

NUMBER RANGE
7,900,702 - 8,002,682
6,307,114 - 8,003,176
7,901,786 - 8,001,964
1,538,990 - 3,006,479
2,902,016 - 3,022,576
7,803,938 - 8,002,811
1,581,821 - 1,582,200
2,049,381 - 2,050,130
1,047,501 - 1,048,000
80,046,881 - 80,048,080
7,501,640 - 8,003,003
59,162 - 73,954
Re30,443 - Re30,444
4,237,557 - 4,238,856

Arrangement of Abstracts

See Appendix I for definition of 'Major' and 'Minor' Countries.

'MAJOR' COUNTRIES – An alerting abtract of every basic and examined equivalent document is provided except for equivalents from Canada, East Germany, Sweden and Switzerland. The abstracts are arranged in CPI class order and within any one of the 135 classes are in country and patent number order.

'MINOR' COUNTRIES – Basic headings are included in sequence with the entries from the 'Major' countries.

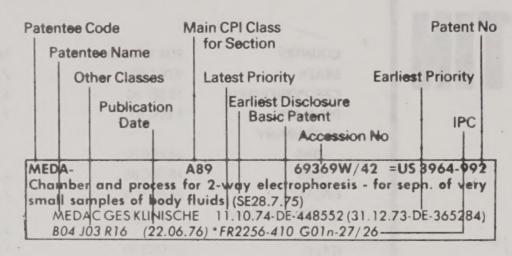
CPI Section Headings

See inside cover for further details.

А	Polymer Chemistry	F	Textiles, Paper, Cellulose
AE	Polymer & General Chemistry	G	Printing, Coating,
A	Polymer Applns.		Photographic Chemistry
В	Pharmaceuticals	Н	Petroleum
C	Agricultural Chemistry	J	Chemical Engineering
D	Food, Disinfectants, Detergents	K	Nucleonics, Explosives, Protection
Ē	General Chemistry	L	Refractories, Ceramics
E+	General Chemistry Applns.	M	Metallurgy

Typical Abstract Heading

See CPI/WPI Instruction Manual No. 1A for explanation of the various flagged descriptors.



Copies of Specifications may be ordered from our PATENTS SUPPLY DIVISION.



DERWENT PATENTS SERVICES

1981 INSTRUCTION CLASSES QUESTIONNAIRE

It is proposed to hold a series of centralised or localised instruction classes in the period from June to November 1981 at locations which will be determined according to demand. A minimum of 5 participants will be required for each class.

The classes that will be offered are as follows:

Advanced BCE Coding (IC5)

Online User Instruction

Advanced Online

Searching (IC7)

and General Overview (IC6)

Elementary A Coding (IC2)

A two day course for new users of CPI Section A codes, covering basic principles and discussion of examples. Max. 20 participants.

Elementary BCE Coding (IC3)

A two day course for new users of CPI Sections BC & F. and an airly

A two day course for new users of CPI Sections BC & E codes with special reference to the New Chemical Code, again with discussion of examples. Max. 20 participants.

Advanced A Coding (IC4)

A two day course for those with previous training and experience of the CPI Section A codes. Max. 20 participants.

A two day course for those with previous training and experience of CPI Sections BC & E codes, with special reference to the New Chemical Code and coverage of complex examples. Max. 20 participants.

A one day course giving in-depth treatment of all access points except special coding, together with formulation of strategy and "hands-on" experience. A general overview of Derwent and its Patents products will also be given. Max. 20 participants.

A one day course demonstrating the use of special coding concepts and other search parameters in the formulation of search logic to retrieve specific subjects or chemical structures. Max. 10 participants.

Cost per person for these classes is: IC2 through IC5 and IC7 £50 or \$120; IC6 £35 or \$85.

Subscribers wishing to participate in these classes are requested to complete the questionnaire overleaf and return it to Derwent not later than 31st March 1981. A schedule will then be drawn up following analysis of the replies.

Reques	st for User Aids	
	tion Manuals 2, ¥3000 each including postage).	No. sets required
No. 1	CPI/EPI GENERAL (INC ONLINE)	
No. 2	CPI/WPI COMPANY/MANUAL CODES	
No. 3	CPI CHEMICAL RETRIEVAL	
No. 4	PLASDOC RETRIEVAL	

Derwent Brochures (free of charge)						p p								
CPI														
WPI														
WPA		,	*								*		×	
EPI	,						×	*		*	*	,		
ONLINE	*	*		,	×	×		×	×	*	*	*		

Type of Instruction Required Number of	Participants
Elementary A Coding (IC2)	
Elementary BCE Coding (IC3)	
Advanced A Coding (IC4)	
Advanced BCE Coding (IC5)	
Online User Instruction and General Overview (IC6)	
Advanced Online Searching (IC7)	
Name and Additional Property of the Control of the	
Preferred Location(s)	
Dates to be Avoided	
	. zahri barnin
Please	e write or type in BLOCK LETTERS
Your Name and Company Name Position Company	
Principal Contact Telephone	Post Code
Signed	Telex



D1: FOOD; FERMENTATION

D11: BAKING

tetic bakery prods. - contg. brewing malt HAMELA P 15.06.79-CS-004138 (15.09.80) A21d-02/38

D/01 + CS 7904-138

D11 00069 D/01 *DE 2923-577

cooled flush fitting backing oven - with warm air outlet to kitchen outside (NL 15.12.80) (NL 15.12.80)

GAGGENAU W HAUS & 11.06.79-DE-923577

Q74 (18.12.80) A21b-01/26 F24c-07

06.79 as 923577 (12pp39)

built-in flush-to-wall baking oven with hot air circulation inside the king space has air channels along the external oven walls. Cool air drawn in at the front top by a radial-flow fan at the rear. Its air tlet can be coupled to channels at the bottom of the oven and can returned to the kitchen.

By turning the air outlet through 180 degrees, it can be connected a duct instead which discharges the warm air to the chimney or to outside. An activated carbon or wire mesh filter cleans the

oling air.

The same oven can thus be used for two different applications. In mmer, when the warming effect of the warmed up cooling air is t desired, it is simple to direct it outside.

60023 T/38 = DS 2109-363 D11 CMP/ nveyor control system - esp for dough portions in a rising/proving amber

KEMPER K (KEM) 27.02.71-DE-109363 (18.12.80) *NL7202-477 A21c-13/02 + Q35

n2.71 as 109363 (9pp1045)

rriers for portions of dough to be allowed to rise during their ssage through a stove, are fixed rigidly to the hanging chains, and stepping sequence of the carriers is determined by the dough tion dispensing unit, dependent upon the selected number of riers which are to be loaded. The endless conveyor formed by the ins holding the dough carrying tubs is synchronised with the igh loading unit, so that the portions are deposited correctly.

'he design permits the careful handling of the largest possible nber of portions in the smallest possible space. During transport y are turned over gently and the timing can be adjusted to suit the fired throughput.

00365 D/01 *GB 2049-604 ady rolled pastry package - pastry free of dusting flour between adherent plastic sheets and rolled into cylinder

PARR T K 29.11.79-GB-041203 (17.05.79-GB-017186)

(31.12.80) A21d-08/08 B65d-85/72

1.79 as 041203 (4pp1358)

ackage comprises pastry sandwiched between two thin flexible toxic plastic sheets to which the pastry does not adhere, pref. yethylene. The package is pref. rolled into cylindrical form and

sheet ends are twisted to prevent unrolling.

here is pref. no dusting flour between pastry and sheets so that try quality on baking is not impaired, and the package is frozen. pastry is ready for use immediately when unfrozen and does not d further rolling, so that a high-quality pastry can be used. ITMU- * D11 00481 D/01 *US 4237-763 Slicing muffins using rotating knife device - past which muffins are advanced by two conveyor belts also rotating muffins

MULTIFOODS CORP 19.03.79-US-021640 (06.04.78-US-

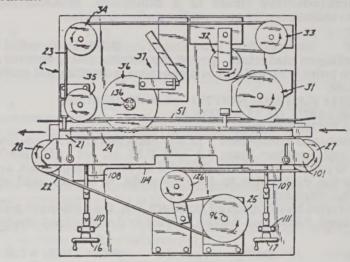
 $P62 \quad (09.12.80) \, A21c\text{-}15/04 \, B26d\text{-}03/30 \ 19.03.79 \text{ as } 021640 \, (16pp295)$

Muffin slicing appts. includes a horizontal surface along which the muffins are advanced by conveyor belts. The belts grip opposite sides of the muffin and pref. the belts move with different speeds to rotate the muffin as it is advanced. The muffin is carried through a slicing station where a rotating, horizontal knife extends into the path of the muffins.

Pref. one of the conveyor belts moves backwards to ensure that each muffin is rotated through 360 deg. while engaging the knife. Pref. the spacing between the belts may be adjusted to accept

muffins of a different size.

The appts. provides a circumferential slit of adjustable depth in each muffin.



71988 Y/40 = US 4238-512D11 Storable acid pre-doughs for baking bread etc. - by souring the dough with lactic or acid forming bacteria to the point of termination of bacterial activity

MENGE W 08.10.76-DE-645457 (20.03.76-DE-611916) (09.12.80) *NL7703-058 + A21d-02/08 A21d-15

27.04.79 as 034076 (+ 20.3.76-DE-611972) (17.3.77-US-778662) (5pp918)Naturally leavened dough(I) used in the prepn. of bread and pastries and capable of sustaining long periods of storage is prepd. by fermenting a cereal mash contg. a culture of isolated heterofermentative leavening dough bacteria to form lactic and acetic acid in the mash.

The fermentation is carried out for sufficient time to complete bacteriological metabolic activity so that the activity is inhibited sufficiently to have a self-preservative effect. Pref. the dough is then dried and packaged in air-tight containers. Pref. the bacteria is

Lactobacillus brevis.

There is a redn. in the amt. of leavening required and (I) can be kept for long periods without adverse effect on taste or baking properties.

D12: MEAT; FISH PROCESSING

00045 D/01 ★DE 2923-187 ective netting for hollow sausage skin rods - anchored by prongs

nnular discs engaging in netting meshes OECHST AG 08.06.79-DE-923187 97 Q34 (18.12.80) A22c-13 B65d-65/38

lage skin, made of cellulose hydrate and compressed to a ugated hollow rod for use on the filler tubes of sausage stuffing 1.79 as 923187 (13pp39) hines is supported by an outer netting, made of a plastomer such

VC, polyamide, polypropylene or, preferably, polyethylene. the open ends of the hollow rod, annular discs of the same width le corrugations are held in position by turning over the netting and folding it back over itself on the outside. The annular discs have radial prongs on the outside which act as tensioning anchors for the meshes of the netting.

Arrangement makes it impossible for the supporting sheath to change its fit around the hollow rod of corrugated skin and ensures a permanently stable shape for it.

00046 D/01 *DE 2923-188 D12 Sausage skin support sleeve - made of specified plastics netting with ends turned over annular discs HOECHST AG 08.06.79-DE-923188

A97 Q34 (18.12.80) A22c-13 B65d-65/38 08.06.79 as 923188 (23pp39)

Synthetic sausage skin, usually made of cellulose hydrate or hoses of a polymer such as polyester or polyamide, are supplied and used in the form of hollow rods, produced by the hose compressed to a corrugated column. A hot forming operation puts the end sections into a permanent shape.

The sausage skin is folded to a hollow rod with corrugations and two open ends. A supporting sleeve consists of netting with foldedback ends which enclose annular discs at the face ends. The pref. material for the supporting sleeve is polyamide, PVC, polyethylene or polypropylene with heat shrinkage properties. The annular discs are made of similar plastics but esp. polyethylene.

00134 D/01 *DE 2924-059 D12 Automatic sausage skin gathering machine - with turntable for two gathering tubes and four working stations KOLLROSS G 15.06.79-DE-924059

(18.12.80) A22c-13/02 15.06.79 as 924059 (25pp39)

Machine for the automated axial gathering of synthetic skins for use in the mfr. of sausages has a turret with two axial gathering tubes which is turned intermittently through 180 degrees. During the gathering operation the turret remains stationary. Each gathering tube has an axially movable stop which can be moved back in controlled fashion during the gathering. The displacement of the turret is limited to that required by the gathering tube to be moved within the reach of the gathering tool.

Arrangement treates the delicate skin material very gently and reduces unproductive times to a minimum. Minimal appts. is

required to subsequently process the gathered skins.

D12 00280 D/01 *DE 3021-780 Shaped collagen materials - prepd. by mixing collagen with specific isoelectric point with gelatin in dispersion, adjusting pH and shaping (NL 16.12.80)

KUREHA KAGAKU KOGYO 12.06.79-JP-073689

A11 F01 (A97) (18.12.80) C081-89

10.06.80 as 021780 (13pp952)

Shaped material comprises 1 pt.wt. collagen (I) with an isoelectric point at not greater than 6.2 and 0.05 pt. wt. gelatine(II). The material is prepd. by mixing (II) with an aq. (I) dispersion, adjusting the pH of the dispersion to 3-3.5 by addn. of an aq. acid soln. and shaping the dispersion.

The material has improved strength esp. tear strength and can be

used in fibres, films, non-woven fabrics and edible food prods.

00281 D/01 *DE 3021-781 D12 Shaped collagen material prepn. - by pretreating collagen contg. skin with aldehyde to reduce isoelectric point KUREHA KAGAKU KOGYO 12.06.79-JP-073690

A11 F01 (A97) (18.12.80) C081-89/06

10.06.80 as 021781 (9pp952) Shaped collagen (I) materials are pretreated by contacting comminuted skin with an aldehyde (II) such that the isoelectric point of (I) in the skin is reduced to a pH less than 6.0. (II) is pref. formaldehyde, acetaldehyde, aerol, glyoxal, glutaraldehyde, dialdehyde-dextrin or dialdehyde-starch.

(I) has high tear strength and can be used for fibres, films, edible

food prods. and non-woven fabrics.

ALEX- * 00319 D/01 *DS 2926-975 Meat cutter and mixer - with thyristorised speed control for cutter blade shaft

ALEXANDERWERK AG 04.07.79-DE-926975

(18.12.80) B02c-18/24 X25 P41

04.07.79 as 926975 (5pp39)

A meat cutter includes a bowl in the shape of half a toroid which is driven by a gear motor and a vertical shaft. A horizontal shaft driven by another motor carries a set of curved cutter blades which take up the section of the bowl. The horizontal shaft is driven through a V-belt by a d.c. shunt motor which is designed for forward and reverse operation and for an infinitely variable speed.

The preferred control system for the d.c. drive motor is a thyristorised rectifier with a chopper type of firing control for

clockwise run, anticlockwise run and braking.

GRAM- * 00329 D/01 *GB 1581-859 Appts. for continuous drying of press cake - with paddles directing cake along partially re/entrant heated path

GRAMPEX PROTEIN LTD 30.04.77-GB-018162

Q76 (31.12.80) F26b-17/20

20.04.78 as ---- (8pp295)

Appts. for continuous treatment of comminuted or mashed material removes volatile liq. The appts. comprises a cylindrical casing with longitudinally spaced ports for entry and exit of material. A shaft is rotatable along the casing axis. Spaced paddles are mounted on the shaft, some of these being given different screw-pitch settings, selected so that rotation of the shaft causes material to be conveyed from the entry to the exit along a path. This has portions which are reentrant. Heaters consist of annular elements coaxial with and spaced along the axis, also spaced radially from both the shaft and

Appts. is partic. designed to treat press cake to form a drie in a continuous process for the mfr. of ground fishmeal.

04174 A/03 = GBD12 Meat deboning process and machine - separates structurally meat pieces from bone gripped by power press plungers
UNILEVER NV 14.07.76-GB-029341
(31.12.80) *BE-856-786 A22c-17

13.07.77 as ---- (4pp931) Meat is removed from bone by compressing the bone a longitudinal axis of a press, such that substantial pieces of move laterally w.r.t. the axis and the bone. The bone is a within the press, and the bone-free structurally intact n severed from the remaining bone and meat mass.

Pref. the severed meat is collected in an annular cooling ch surrounding the press, which is in a close-fitting disposition f a shear tool. Relative movement of the chamber and the pres the shearing of the meat to sever bone-free meat from the mas

The meat obtd. in the process is of higher quality and having an intact structure w.r.t. meat degraded by comminut

43040 U/31 = J80 D12 PFIZ Isocitric acid lactone - anhydride - for use as additive liberating acid esp for foodstuffs, partic meat PFIZER CORP 23.12.71-GB-060034

(02.12.80) *DE2262-473 C07d-493/04 + A231-01 22.12.72 as 136288 /79 Div.ex 128341/72 (3pp)

Title cpd. of formula (I) is slowly hydrolysed first to the lacto then to free acid. The liberation of the acid can be further dela coating particles of isocitric acid lactone-anhydride with an glyceride (animal or vegetable) solid at temps. up to 40 deg. hardened oil, or an edible salt of a fatty acid. This cpd. is pre dehydrating cis-isocitric acid lactone with acetic anhy (J55104865)

KIBU-82885 A/46 = J800Prepn. of fish paste food - by adding salt and water to mince meat, treating with high speed cutter, opt. adding seasoning e moulding and heating

KIBUN KK 18.03.77-JP-029229 (02.12.80) *J53115-851 A231-01/32

18.03.77 as 029229 (6pp5)

Method comprises adding common salt and water to mince meat, treating the mixt. for less than 15 mins. (pref. 6-10 mins. a high speed cutter so that the fall in the activity of Mg. ions A does not exceed 30%, if required adding seasoning, starch, etc mixt., moulding the mixture to desired form and heat-treati

Marine pasty foods such as boiled fish paste, which have fir soft texture and are excellent in taste and flavour can be

(J53115851)

CROA/ D12 63417 B/35 #US 4 Separating the cheek muscles of a pigs head - by clamp conveyor for wedge prising jaws open (NL 21.8.79)

CROASDELL DF 17.02.78-IE-000349 (28.06.79-US-052894)

(09.12.80) *DE2905-998 A22c-17

28.06.79 as 052894 (7pp1376)

Jowl muscles of a half pig's head are severed by advancing t head sideways on a conveyor such that a wedge is forced be the upper and lower jaws from the side to force the jaws a sever the muscles without separating the jaws.

Pref. the skin is removed previously. The conveyor pre

locating and supporting devices.

Severing of the jowl muscles allows further processing c heads.

LANG/ D12 36898 C/21 = US 4 Compression of meat in double chambered apparatus - with released juices between two chambers

LANGEN J C 03.11.78-US-957350 (09.12.80) *EP--10-780 + A22c-11/06

03.11.78 as 957350 (6pp1376)

Compression appts. consists of two press chambers whi sequentially operated to compress a product during which li removed, and are connected so that liq. pressed from the p one of the chambers is conveyed to the other chamber w inoperative.

Pref. the chambers are at least partially defined by a co movable wall which moves to reduce the vol. of one chamb-

increase the vol. of the other.

Loss of meat juice during meat pressing is reduced.

D12 66440 C/38 = US 4238-513 mulsion fermentation in dry or semi-dry sausage mfr. - using culture concentrate inoculant of Pediococcus pentosaceus

UMARK INC 09.03.79-US-019241 6) (09.12.80) *DE3008-650 + A23b-04/12 A23c-11 9 as 019241 (4pp918)

semi-dry sausages are produced in a method where a meat ion is inoculated and fermented with lactic acid producing organisms (I). Pediococcus pentosaceus ATCC 10791 is used as he form of a starter culture concentrate contg. 10 power 8-10 13 cells/ml, 0.1-10% of the concentrate is added. Pref. the ntrate is freeze dried, frozen or a liq. stabilised concentrate e fermentation is carried out until a pH below 5.0 is obtd. Pref. ntation occurs at 50-80 (esp. 60 -80) deg.F for less than 72 (esp. an 48) hrs.

fermentation cycle can be controlled to produce desired characteristics in a short time with the growth of minating microorganisms being reduced.

PEDC-D12 65019 B/36 = US 4238-515Self-binding fibrous gluten for meat-like prods. - obtd. by agitating wheat gluten, reducing agent and inert solid PEDCO PROTEINS & EN (SHEM) 22.02.78-IL-054096

A97 (09.12.80) *EP---3-912 A23j-03 15.02.79 as 012403 (4pp918)

New form of gluten (I) contains an inert food material (II) in its matrix and has a net-like fibrous structure with less than 2 mm dia. fibres, a viscosity at least 50,000 cps. and self-binding properties. (I) is obtd. by agitating a mixt. of hydrated vital wheat gluten and a reducing agent at a temp. lower than 70 deg.C to form a softened netlike fibrous structure followed by the incorporation of the solid, inert, food material of particles less than 5 cm to get a ratio of gluten:inert food material of 1:0.1-10.

Pref. (II) is textured vegetable protein (esp. rehydrated extruded soya). Pref. the reducing agent is tocopherol, ascorbic acid, or sodium sulphite or bisulphite. (I) is used in the mfr. of meat-like prods. which pref. also contain colouring agents, spices and fats.

(I) can be used as a high quality meat analogue or as a raw material for mfg. processed meat prods. e.g. sausage, hamburger, meat spread corned beef, etc..

D13: OTHER FOODSTUFFS

D/01 + CS 7704-923 D13 E/ * obial rennet prepn. EDEK M 25.07.77-CS-004923 016) (15.09.80) A23c-23 D/01 +CS 7706-005

D13 E/ * ed dairy products prodn. EDEK M 15.09.77-CS-006005

5.09.80) A23c-23

D/01 + CS 7900-258 D13 gically conserving bulky feeds - by means of microbiotic arations

ICAN P 11.01.79-CS-000258 55 (15.09.80) B23k-03/02

D/01 + CS 7901-567 D13 essing of inulin-contg. foods

EISSOVA V 08.03.79-CS-001567 94 (15.09.80) A231-01

D13 -based feedstuff prodn.

DRMAN L 29.05.79-CS-003692 (15.09.80) A23k-01/08 D/01 *CS 7904-042 D13

stuffs lowering chlorinated pesticides conc. in farm animals DDHORSKY M 11.06.79-CS-004042 (15.09.80) A23k-01/16

D/01 + CS 7904-139 th medium based on beer malt - and having dietetic activity ANULAP 15.06.79-CS-004139 5.09.80) A231-01/10

D/01 + CS 7904-881 D13 raditional materials conversion into feedstuffs

RUF 12.07.79-CS-004881 (15.09.80) A23n-17

D/01 + CS 7905-751 al feedstuffs

"LMAR B 24.08.79-CS-005751 (15.09.80) A23k-01/16

D/01 *CS 7905-752

D/01 + CS 7903-692

animals feedstuff prodn.
TLMAR B 24.08.79-CS-005752 3 (15.09.80) A23k-01/16

D13

D13

D/01 *CS 7906-144

et products prepn. from inorganic materials CDEK'M 11.09.79-CS-006144

16) (15.09.80) C12n-09/56

D13 llcoholic, non-fermented beer-like drink RANT J 22.09.79-CS-006403 .09.80) C12g-03/08

D/01 + CS 7906-403

D13 D/01 *CS 7908-575 Protein biomass prodn. from beech bark hydrolysates KRAMAR A 10.12.79-CS-008575 (15.09.80) A23k-01/12

FARB * D13 00056 D/01 *DE 2923-339 6-Acylamino-penicillin-1,1-di:oxide derivs. - useful as antibacterials, beta lactamase inhibitors and feed additives

BAYER AG 08.06.79-DE-923339

B02 C02 E13 (18.12.80) A23k-01/17 A61k-31/43 C07d-499/44

08.06.79 as 923339 (51pp1251)

Penicillin dioxides of formula (I) and their salts are new. In (I), R1 is Hor ester-forming gp.; R4 is H, opt. substd. naphthyl the gps. R5.CX, R6R7R8C-, R9R10R11C-or R12-acetylenyl5 is H, alkyl, alkoxy, cycloalkyl, cycloalkenyl, cycloalkadienyl, alkenyl, aralkyl (all opt. substd.), aryloxy, aryl or heterocyclyl.

substd.), aryloxy, aryl or heterocyclyl.

R6 is halo, alkyl, alkoxy, cycloalkyl, cycloalkenyl, cycloalkadienyl, alkynyl, aralkyl, aralkoxy, naphthyl, amino or cycloalkoxy (all opt.substd.), heterocyclyl, sulpho or carboxy (or their functional derivs.), hydroxy or acyloxy; R7 and R8 are each H or opt. substd. alkyl or alkoxy, but not alkoxy if R6 is hydroxy or opt. substd.amino; R9 is opt. substd. phenyl; R10 is phenyl, alkoxy, alkyl, aralkyl, cycloalkyl, cycloalkenyl, cycloalkadienyl, alkenyl (all opt. substd.), acyloxy, sulpho or carboxy (opt. as functional derivs.), acyl, heterocyclyl or halo; R11 is H, opt. substd. amino R10, or R7 plus R8 or R10 plus R11 together complete a membered carbocyclic plus R8, or R10 plus R11 together complete a membered carbocyclic or heterocyclic ring; R12 is H, opt. substd. alkyl or aryl; X is oxygen, -N or R14R15C13 is hydroxy, opt. substd. alkoxy or amino, or heterocyclyl; R14 and R15 are H, opt. substd. alkyl, aryl, heterocyclyl or carboxy (opt. as functional deriv.

(I) have antibacterial activity and can be used therapeutically or for preserving materials such as polymers, paper, wood, food or water. They are also inhibitors of beta-lactamase (more effective than known cpds. of similar structure) so can be used in human or veterinary medicine to improve the activity of other beta-lactamase antibiotics. (I) are also useful as animal feed additives.

00128 D/01 *DE 2924-002 D13 Bird feed block e.g. bar or rod - contg. water glass binder bonding bird-grains and nutrient additives

MERKL A 13.06.79-DE-924002 C03 (18.12.80) A23k-01/18

13.06.79 as 924002 (14pp200)

Bind-feed block consists of bind grains and additives, e.g. vitamins, minerals and trace elements, bonded to one another with a water glass binder, pref. of Na- and/or K water glass

The water glass binder strongly bonds the bind-feed block, yet the

binds can pick the grains with their beaks.

00165 D/01 *DE 2924-242 D13 Non-alcoholic fresh milk ultrafiltration permeate drink - pref. contg. added lactose concentrate obtd. by reverse osmosis of permeate parts

ENEAL 15.06.79-DE-924242

(18.12.80) A23c-09/14 15.06.79 as 924242 (5pp200)

Refreshing non-alcoholic drink consists entirely or almost entirely of a permeate produced from fresh whole- or skim milk by ultrafiltration.

Prepn. of a natural, healthy beverage finds a new economic use for increasing milk prodn. The first ultra-filtration yields a casein concentrate for cheese prodn. Further reverse osmosis of permeate yields a lactose concentrate which enriches the permeate.

00213 D/01 *DE 3008-313 D13 Semi-processed, room temp. packed storable chip prepn. comprises partial pre-drying to given water content before packing and sterilising

DAI NIPPON INSATSU 04.06.79-JP-068845

(18.12.80) A231-01/21

04.03.80 as 008313 (19pp200) Semi-processed potato pieces, e.g. chips, contg. 61-72wt.% moisture are hermetically sealed in a bag of gas-tight, opaque-material, pref. a laminate of thermoplastic film and Al foil. The chips are prepd. by washing, peeling and cutting raw potatoes, pre-drying the chips, packing in gas-tight, opaque foil bags, hermetically sealing and heat-sterilising.

The packed chips can be stored at room temp., e.g. for 6 months,

and are ready for use by frying in an oil-bath.

00278 D/01 *DE 3021-775 ROQF * D13 Stable sugarless chewing-gum not causing dental caries - comprises hydrogenated starch hydrolysate plasticiser having high maltitol and low higher poly:ol content (NL 17.12.80)

ROQUETTE FRERESSA 15.06.79-FR-015479

(18.12.80) A23g-03/30 A97 10.06.80 as 021775 (22pp200)

In sugarless chewing-gum consisting of gum, aq. plasticiser and one or more solid sweeteners, esp. mannitol, the aq. plasticiser consists, at least partly, of a hydrogenated starch hydrolysate contg., by wt., under 3 (under 1.5)% polyols having degree of polymerisation (DP) over 20, under 60 (45-60) esp. 50-53% maltitol (DP2), under 19 (0.3-14) esp. 4-14% sorbitol (DP1), balance to 100% polyol mixt. having DP 3-20. The hydrolysate content of the final chewing-gum is 3-35 (10-30) Mannitol content decreases with increasing hydrolysate content.

The chewing-gum comprises bubble gum and gum having an inner heart. Hydrogenated starch hydrolysate addn. strongly increases sweetening capacity, improves plasticity, perfume and aroma retention, stability to the caries-causing acidifying activity of bacteria in mouth and partic. storage stability, allowing mannitol content reduction and even omission.

NIRO D13 23267 T/15 = DS 2147-153 Treatment of milk powder with lecithin - to improve solubility in cold water

NIRO ATOMIZER A/S 25.09.70-DK-004920

(18.12.80) *DE2147-153 A23c-09/16

21.09.71 as 147153 (9pp1045)

The quantity of the starting prod. comprising a full milk powder, the capacity of which, to become wetted by cold water, is to be improved, and the amt. of coating material, are selected so that the final free surface fat together with lecithin, amts. to 1-3 wt.%

The lecithin is applied in quantities of 15-25 wt.% of the portion of the free surface fat (relatively to the originally present surface fat and coating) which is fluid at room temp. The amt. of fat applied with regard to the specific surface of the milk product is selected so that a thickness of the fluid fraction present on the surface, of more than 0.1 microns is achieved. As the coating fat, melted, nonfractionated butter fat is used.

The powder agglomerates have a particle size of more than 100 microns and the coating with lecithin dissolved in fat is carried out at 50 deg.C., with the certain result that the capacity for wetting with

cold water is raised to a very high degree.

44284 A/25 = DS 2656-659 Cheese press with rotary cage - has rams in rows spaced round cage axis with moulds on periphery

WALDNER H & CO GMBH 14.12.76-DE-656659 P13 (18.12.80) *DE2656-659 A01j-25/15

14.12.76 as 656659 (7pp1045)

A cheese press has a basket which is rotated on its horizontal long axis, and carries rows of piston-cylinder units parallel to the same axis. Each of these has a pressing punch and a receiver for a detachable press mould.

There are at least three rows of piston units spaced out uniformly around the long axis, the punches of which act radially outwards, and the receivers for the moulds are positioned internally around the circumference of the basket. The machine works efficiently, occupying the min. of space.

04723 A/03 = GD13 DOUG/ Edible fibrous cellulose coated with edible gum - as low cal for foods and pharmaceuticals

DOUGLAS D 25.02.77-US-772101 (30.06.76-US-701147) A97 B07 (31.12.80) *DE2729-370 A231-01/34

24.06.77 as 026666 (9pp931)

Low calorie edible material comprises fibrous cellulose of fibre length 75 microns or less. The fibres are coated with a contg. 2-15wt.% of water-soluble edible gum (the wt. bei cellulose).

Pref. the gum is sodium carboxymethylcellulose, Gu xanthan gum, locust bean gum or an alginate. The coating comprises 2-12 pts. wt. of glycerol, sorbitol, propylene glyce

The edible material is prepd. as a stable aq. dispersion, a spaste, and may contain additional emulsifiers, flavouring food-texturising agents and colouring agents.

76250 A/43 = GBNEST Milk food used esp. for premature infants - contg. mix protein, carbohydrate, etc. in specified amts. SOC PROD NESTLE SA 27.04.77-CH-005216

(31.12.80) *BE-865-080 A23c-11

04.04.78 as 013112 (6pp931)

A food prod. for babies of low birth wt., (esp. premature comprises (per 100 pts. wt. when dry) 21-27 pts. wt. of lipids, 1 wt. of 1 or more protein, 50-63 pts. wt. of lactose and glucos 1.5-2 pts. wt. of 1 or more mineral salts, and 1-3 pts. wt. of wa lipids comprise lactic fat, vegetable fat, and 30-50wt.% of chain glycerides w.r.t. the fat mixt., 50 wt.% or more of the are soluble.

Pref. the prod. is prepd. by clarifying fresh milk, standard by adding lactic fat, and adding a mixt. of non-lact pasteurising, concentrating, homogenising and cooling th obtd.; adding demineralised whey and 1 or more non-de soluble ultrafiltered whey protein; preheating the mixt. and to avoid protein denaturation; and mixing the dried powder obtd. with anhydrous glucose and processing in the absence o

21993 B/11 #GB BEAF D13 Stabiliser, thickening agent etc. for food - consists proteinaceous colloidal whey ppte. prepd. by increasing pH

BEATRICE FOODS CO 24.07.75-US-598873 (15.05.78-GB-0 (31.12.80) *US4143-174 A23c-21 A23l-01 A23l-02 + A61k-07

15.05.78 as 019653 (9pp931)

A food or food-grade compsn. comprises a food(-grade) mate a modifying amt. of a food modifier such that the I

characteristics of the material are changed.

Improvement is that the modifier is a non-proteinaceou colloidal complex ppte. from deproteinated whey of particle: than 10 microns when in aq. suspension. The modifier is colour, exhibits no disagreeable taste in suspensions of 30w less, and can be dried to a free-flowing powder which is cal gelling water and petroleum ether.

The compsn. may esp. be used in foodstuffs, pharmacarriers, cosmetics (lipsticks, face-creams and bases), toot

and mouthwashes.

BADI D13 12264 A/07 = GB Electrochemical prepn. of symmetric carotenoid(s) - by o dimerisation of phosphonium salts

BASF AG 09.08.76-DE-635802 B05 C03 E24 (D21) (31.12.80) *BE-857-607 C07c-175 C25b-0.0 08.08.77 as 033094 (6pp974)

Symmetrical carotenoids are mfrd from the phosphonium their molecular halves. by oxidising the salts electrochemic solvent and in the presence of a base. This causes the mo halves to dimerise with the elimination of substd phosphine or

Pref. the prod. is a carotene with a hydrocarbon structur oxidized deriv., built up of 8 isoprene units so that the two methyl gps are 1,6-to each other and the remaining non-t methyl gps. are each 1,5- to the adjacent central methyl gp. solvent is water.

Process uses easily available starting materials and give:

D13 72762 A/41 = GBAppts. for mfr. of yoghurt, esp. in the home - having ele circuit for very close control of incubating temp. ST-PIERRE R 18.04.77-CA-276402

(31.12.80) *BE-865-753 A23c-09/12 P13

29.03.78 as 012888 (7pp1376)

Yogurt-making appts has a double walled container, a heate space between the walls and connected to outer lower surfac inner wall, and a controller to keep the temp within +-0.5 c the desired temp. The heater consists of heating elements a to a heat absorbing foil and spaced by separators. A heat re

overs the elements and a regulator which protects the elements overheating to conc. the heat on the heat-absorbing foil. ax quantity of culture is produced in the min time.

D13 00360 D/01 *GB 2049-537 nation of filled food products - with outer casing by applying sure to filling sandwiched between two edible sheets e.g. of

ETFRESH FOODS LTD 26.02.80-NZ-192976 (21.04.79-NZ-

31.12.80) A23p-01 B29c-17

.80 as 013101 (11pp295)

odstuff is made by sandwiching a filling between layers of le, flexible sheet material. Gas is evacuated from around the g and sheet material, and is then introduced to compress the rs of sheet material towards each other and about the filling.

e appts. used incldues a surface for supporting the lower layer eet material. It also includes valves for evacuating the gas and ner valves for introducing the compression gases. Pref. table bladders are used to contain and direct the gas used for pression.

D13 $55429 \text{ A}/31 = J8\,0047-060$ ficn. of aq. anthocyanin solns. - by adsorption with metal e(s) coated with styrene polymer film and elution (BE 24.7.78) HONE-POULENCINDUSTRIES 24.01.77-FR-001890 97 E23 (A12 D16) (27.11.80) *DE2802-789 C09b-61 .78 as 005867 (6pp4)

anthocyanine solns. are purified by treatment with an rption agent comprising a metal oxide coated with a film of a ene polymer. The adsorbentis then sepd. and treated with an on agent.

sed for selective adsorption of anthocyanines from a mixt. of er, sugars, pectins, gums, organic acids and polyphenols, e.g. as ined from wine prodn. The anthocyanines are red or blue dyes suitable for the food industry, e.g. milk products, bakery ucts, drinks, meat products, etc. The very pure extracts can be by converted into the dry products. (J53111331).

td. cyclopentenone alkali metal salt prepn. - by e.g., reacting na)-alkoxyalkyl-carboxylic acid ester with acrylic acid ester in ence of basic alkali metal cpd. ORAY IND INC 26.03.76-JP-032413

112 (01.12.80) *J52116-439 A61k-07/46 C07c-67 C07c-69/75

3.76 as 032413 (6pp62)

li metal salt of 2-hydroxy-3,5-dicarboalkoxy-5-alkyl ppentene-1-one of formula (I) are used as food flavourants. They prpd. by reacting alpha-alkoxyalkyl-carboxylic acid ester of (II) R-(R'OOC)CH-COCOOR', th an acrylic acid ester of mula CH2:CHCOOR'ere R is alkyl R' is an ester residue and M is an li metal in a polar aprotic solvent in the presence of strongly alkali metal cpd. or by reacting carboxylic acid ester formula RCH2COOR'th oxalic acid diester formula (V) R'OOC-COOR'd ng (III) to the system.

the polar aprotic solvent is dimethyl formamide, thylsulphoxide, dimethylacetamide, sulpholane, etc. and has moment of at least 15. Strongly basic alkali metal cpd. is li metal hydride, alkali metal amide or alkali metal alkoxide.

81494 Y/46 = J80047-624A D13
Il removal from aminoacid prods. - uses chelating resins with

: aminoacid salt gps.
DRAY IND INC 27.04.76-JP-047242

(01.12.80) *DE2718-649 C07c-99/12 C07c-101/02

.76 as 047242 (6pp-)

ating resins remove metals from amino-acid solns. contg. one or metallic ions. The resincarboxyl anion gps. are neutralised basic amino-acid cations +) e.g. NR(2-m) (CH2)n.CO.AH +)m re R is r alkyl m is 1-2, and n is 1-4. The (AH+) amino-acid is also present in the amino-acid soln. to be purified.

ed for purifying amino-acid prods. for foodstuffs from metals ng from raw materials, containers, or added as enzyme growth terators. The chelating activity of the resins is higher than that ose already in use. The amino-acid prod. yield is greater, less iins on the resin and less resin is needed. The process is tive at higher concs. (e.g. 20-30%) of amino-acid. There is no mination of the prod. with alkali or NH4 ions from the chelating . (J52131522).

88316 B/49 = J8 0047-866 chewing gum, coloured by phycocyanine - obtd. by extn. of

TTE KK 17.04.78-JP-044140 (02.12.80) *J54138-156 A23g-03/30 17.04.78 as 044140 (4pp22)

Phyceryanine or phycocyanin compsn. is incorporated into chewing

gum (base) to colour it clear blue.

The phycosianin can be obtd. by extn. of spirulina, e.g. Spirulina plastensis, Spirulina maxima, Spirulina geitleri, Spirulina mafer, Spirulina princeps, Spirulina laxissima, Spirulina aubtilissima, Spirulina caldaria, Spirulina cufta, Spirulina spirulinoides, etc. The amt. of the colouring agent used is 2-5 g per kg. of the gum base. The

colouring agent may be used in powder or soln. of concn. 30-60%.

Glucose or other sugar, sodium citrate, sodium dihydrogen phosphate or other alkali salt, may also be incorporated in the base.

(J54138156)

TAKE/ * D13 00445 D/01 *J8 0047-869 Storage stable brine compsn. - comprising brine mixed with leek TAKEUCHI M 04.07.77-JP-080220

(02.12.80) A231-01/16

04.07.77 as 080220 (2pp22)

Brine is mixed with leek. The brine compsn. can be stored for a long period of time without degradation. No bad smell is found, it has good flavour and noodles treated with it have good flavour and good taste. (J54014537).

SAOK D13 $28866 \text{ B}/15 = J8\,0047-871$ Purificn. of Stevia sweetening agents - by contacting with non-polar synthetic adsorbent, eluting and treating with calcium hydroxide followed by ion exchange treatment

SANYO KOKUSAKU PULP 08.08.77-JP-094242

B03 E13 (02.12.80) *J54030-199 A231-01/22 + C07h-01/08 08.08.77 as 094242 (6pp104)

Stevia sweetening materials are purified by (i) contacting with nonpolar synthetic adsorbent an extract of stevia sweetening materials consisting of stevioside, rebaudioside A and their analogs extracted from leaves of Stevia rebaudiana with water or hot water, (ii) eluting with organic solvent or hydrous organic solvent and recovering the stevia sweetening material adsorbed on the adsorbent, (iii) treating the eluate with calcium hydroxide to remove impurities and treating the prod. with cation exchange resin and anion exchange resin for

Various disadvantages known methods are overcome by treating the eluate of stevioside with calcium hydroxide and treating with a

small amt. of ion exchange resin. (J54030199)

D13 $88571 \text{ A}/49 = J8\,0047-877$ Di:sodium 5'-guanylate and di:sodium 5'-inosinate mixed crystal prepn. - by crystallising from aq. soln. until desired guanylate to inosinate ratio is obtd.

AJINOMOTO KK 01.04.77-JP-037029

E12 (02.12.80) *J53124-686 C07h-19/20 + C12p-19/32

01.04.77 as 037029 (2pp5)

Prepn. of mixed crystal of disodium 5'-guanylate (GMP.2Na) and disodium inosinate (IMP.2Na) having the proportion of GMP/IMP equal to 1, is effected by crystallisation of an aq. soln. of GMP.2Na and IMP.2Na with the proportion 1.2-2.6 until the proportion reaches the specific value which is less than 4 decided from the proportion of the starting soln.

The mixed crystal has higher IMP.2Na proportion i.e. lower proportion than that of the aq. soln. and with crystallisation the proportion of GMP.2Na in the aq. soln. gets higher. Thus at the final stage of the crystallisation mixed crystal having high GMP.2Na proportion is obtd. Thus it is necessary to stop the crystallisation at

the required stage. (J53124686)

64736 B/36 = US 4237-781 D13 Gravity pressure extrusion to mfr. blocks of cheese from curds under vacuum pressure temporarily relieved to prevent sticking during extrusion

ALFA-LAVAL AB 20.04.78-GB-015749 P13 (09.12.80) *BE-875-724 A01j-25/11 + A23c-19/02

10.04.79 as 028803 (7pp1376)

Cheese blocks are formed from curd in appts. which includes upper and lower chambers joined by an opening which may be closed by a guillotine blade, and a hollow column extending from the opening into the upper chamber and being apertured near its base.

Curd is supplied to the column with the upper chamber at subatmospheric pressure, whey is extracted through the apertures, the curd pillar is lowered by withdrawing the blade, and then cut by

advancing the blade. As the pillar is lowered air is admitted to the upper chamber to laterally compress the pillar. Cheese blocks can be continuously produced.

D13 72772 Y/41 = US 4237-820Feeding artificially grown fish - with water insoluble, suspended fishfood pellets

MULLER H 24.03.76-CH-003706 C03 P14 (09.12.80) *DE2711-485 A01k-61/02

21.06.78 as 920374 (+ 22.3.77-US-780250) (7pp1376) Fish feeding appts. consists of a funnel, a cup vertically above the funnel, and a conduit extending between. In use the appts. is submerged in a fish tank and becomes filled with water. Pref. water is forced by air injection through the food to keep it floating.

Amt. of food wasted is reduced.

00610 D/01 *US 4238-344 D13 INFL * Aroma additives for solid or liq. detergents - comprising 2-oxabi:cyclo-(2.2.2.)-octane derivs. and cyclohexene alk(en)yl carbinol(s)

INT FLAVORS & FRAGR INC 07.06.79-US-046364 (20.10.78-US-

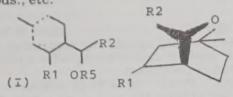
953128)

B05 E19 (D18 D21 D23) (09.12.80) C11d-03/50 C11d-09/44

07.06.79 as 046364 Div.ex. 4195099 (47pp513) A solid or liq. detergent has its aroma augmented or enhanced by addn, of of at least one cyclic cpd. (I) or (II) in which R1 is H or methyl; R2 is 3-5C alkyl or alkenyl; and R5 is H or 1-4C acyl. One of the dashed lines is a carbon-carbon single bond and the other is a carbon-carbon double bond. The oxabicyclo-octanes (II) and the

cyclohexene alk(en)yl carbinols and esters (I) provide a range of herb-like, fruit-like, tobacco-like and woody aromas.

(I) and (II) may also be incorporated as aroma and flavour enhancers and augmenters in foodstuffs, toothpaste, tobacco, medicinal prods., etc.



00637 D/01 *US 4238-392 Purificn. of L-aspartyl-L-phenylalanine alkyl ester sweeteners - by mixing with aq. alkali metal periodate

PFIZER INC 29.10.79-US-089640 B05 E14 (E16) (09.12.80) C07c-103/52

29.10.79 as 089640 (4pp916)

L-aspartyl-L-phenylalanine (1-3C) alkyl esters (I) formed by reacting L-aspartic acid N-thiocarboxyanhydride with a L-phenylalanine alkyl ester is purified from malodourous by products by contacting with an aq. soln. of an alkali metal periodate at pH 2 to 6 and at a temp. of 0 to 50 deg.C. The soln. may also contain sodium or potassium chlorate and/or 5 to 15 percent activated carbon.

(I) are artificial sweeteners.

00666 D/01 *US 4238-475 D13 Chewing gum contg. insoluble, particulate pharmaceuticals - coated with e.g. gum arabic to facilitate release LIFE SAVERS INC 01.08.79-US-062861

(09.12.80) A23g-03/30 A61k-09/68 A96 B07

01.08.79 as 062861 (11pp1251)

Chewing gum which when chewed releases finely-divided, waterinsoluble therapeutic agents (I) comprises (A) a water-soluble phase consisting of softener, and (I) coated with a water-soluble material (II) to facilitate release of (I) and prevent its resorption by the gum base, and (B) a water-soluble phase consisting of separate, suspended and dispersed masses of gum base.

(II) is a dextrin, gum tragacanth gelatin, pectin, carboxymethyl cellulose, alginate or other hydrocolloid, esp. gum arabic, and the pref. wt. ratio (II):(I) is 1:2-4. (I) is e.g. magnesium or aluminium hydroxides, CaCO3, nystatin, fat-soluble vitamins, antibiotics,

propranolol, nadolol or esp. dicalcium phosphate (Ia).

Opt. sweeteners are included in both phases and the pref. softeners are sorbitol or maltitol syrups, xylitol, corn syrup, or hydrogenated

starch hydrolysate.

(I) is efficiently and continuously released e.g. 75% is released over 5-10min. The bitter taste of some (I), e.g. nystatin, is effectively masked and the gum remains sweet for a long time.

MATS/ D13 66547 B/37 = US 4238-479 Foodstuff with strengthening effect - contg. Paramaecium aq. extract in a carrier, e.g. lactose or royal jelly
MATSUBARA M (MORI) 24.02.78-JP-020720
B04 (09.12.80) *DE2905-669 A61k-35/12

07.02.79 as 010050 (5pp945)

Nutritional deficiency in humans is treated by oral admin. of an orally injestible nutrient compsn. comprising a small amt. of substance (I) obtd. by extn. of Paramecium with water or aq. soln. and a large amt. of carrier. Total of (I) injested is up to 50 (pref. 10) mg per day.

(I) may be a dried extract of Paramecium and pref. consists of a major amt. of lower mol.wt. portion and a minor amt. of higher mol. wt. portion sepd. from the extract. The compsn. pref. also contains cyclodextrin, partic. in beta form, with which (I) can form a

clathrate cpd. The carrier is e.g. lactose or royal jelly.

00681 D/01 *US 4238-510 D13 Sugarless coating for candy, chewing gum and pills - based on sorbitol with binders, film-forming agents etc.

LIFE SAVERS INC 21.02.79-US-012999

(09.12.80) A23g-03/30 21.02.79 as 012999 (6pp955)

A sugarless coating for candy, chewing gum or pills or ta based on crystalline sorbitol, opt. mixed with mannitol hydrogenated starch hydrolysate. It contains 45-90% sorbitol.

It pref. also contains a film-forming agent, esp. g methylcellulose, hydroxypropylcellulose, ethylcell hydroxyethylcellulose or carboxymethylcellulose, a binder e. arabic, xanthan gum, gum tragacanth, tapioca dextrin or m food starch and opt. dispersing agents esp. titanium dioxid anti-sticking agents e.g. calcium carbonate, talc, or magr trisilicate.

The coating has a good appearance, and good flavour release

through and chew props. It need not contain xylitol.

00682 D/01 *US 42 D13 GENO * Puffed Nato rice prepn. - includes addn. of dried torula ye prevent clumping

GENERAL FOODS CORP 15.06.79-US-048968

(D16) (09.12.80) A231-01/18 15.06.79 as 048968 (4pp955)

In the prodn. of a puffed prod. from cooked and tempered Nato the rice is mixed prior to cooking with dried torula yeast in suff amts. to reduce the tendency of the cooked rice to clump and

The torula yeast is pref. spray dried. 0.25-5.0, esp. about 1 wt the yeast is used, based on wt. of rice. The yeast and rice ar

mixed before cooking.

KREU- D13 34167 X/19 = US 423 Tempering masses containing cocoa butter, such as chocolat give shine, resistance to heat and crystalline bloom KREUCOHA AG 24.10.74-DE-450515 (09.12.80) *DE2450-515 A23g-01

24.10.75 as 625748 (14pp918)

Pre-crystallising chocolate contg. meltable cocoa butter fa releasing latent heat on crystallisation comprises (a) determin temp. at which (I) melts; (b) slowly cooling the mass to a t sufficient to initiate pre-crystallisation; (c) sensing during cool redn. in the cooling rate due to the release of latent he crystallisation and terminating cooling in response to this; (d) m heating the mass to a temp. at which pre-crystallisation is com and further processing can occur.

The time at which cooling is terminated is accurately detern and the process can be automatic. Method is convenient

reliable.

SIMP- ★ D13 00683 D/01 *US 423 Frozen fried chips which can be heated in oven or toaster - bas potato with binders and cellulose

SIMPLOT J R CO 11.12.78-US-967960

(09.12.80) A231-01/21 11.12.78 as 967960 (4pp955)

Frozen fried chips which can be heated in an oven or toaste prepd. from a dough contg. 45-70% cooked mashed potato, 15 added water, 0.7-3.6% binder, 0.2-1.0% cellulose contg. a substaamt. of microcrystalline cellulose, 10-30% dried potato flak granules, 0.05-0.2% disodium pyrophosphate, 0-3% aluminium phosphate and 0.04% sodium bicarbonate. The dou fried in cooking oil to give a prod. contg. 40-60 wt.% water and wt.% cooking oil.

The prod. is easily reheated, but closely duplicates the flavou: texture of conventional chips. The pieces do not blister or coll

during cooking or handling.

D13 49152 Y/28 #US 421 Prepn. of stable red dyestuff from beetroot - by extra absorption on a column, elution and complex formation

LAB LAFON L 07.10.75-GB-041067 (28.04.78-US-900995) A97 B07 E24 P85 (09.12.80) *FR2327-292 + A231-01/27

28.04.78 as 900995 (4pp963)

Prepn. of a stabilised betanidine pigment compsn. comprises ac to an aq. soln. of a material betanidine (I) or (I)-contg. Beta vul extracts, as stabiliser, 1-2 pts.wt. of an acid polysaccharide (II) pt.wt. of material.

Soln. is then pref. evaporated to give stabilised powder con (II) is pref. pectic acid. In sepn. of the pigment, the initial ex from the beetroot is generally treated e.g. with ion exchange r

before processing as above. The beetroot pigment of purplish-red colour may be used in

food and pharmaceutical industries.

46668 C/27 = US 42 Egg albumen extender - comprising protein contg. compsn. c mol. wt. and low fat content, mixed with gelatin or gum and whipping aid

STAUFFER CHEMICAL CO 18.12.78-US-970688 (09.12.80) *EP--12-490 A23j-03/02

18.12.78 as 970688 (9pp918)

Egg albumen extender comprises at least 65% protein c compsn. (I) derived from plant or animal sources. (I) has a mor less than 20000, Kjeldahl N content 0.45-2.1% (with at least 60) rotein origin) fat content less than 0.25% and 1-15% gelatin, opt. 25% water soluble polyphosphate, the total amt. of gelatin and hate is less than 35%. (I) also contains 0.5-5% gum, and 0-30% ing aid.

d. can be used as extenders in meringues, nougat, divinty

and yellow, or sponge cakes.

D13 00684 D/01 *US 4238-520 fat spread esp. margarine substitute - contg. low melting fat, al emulsifier, water-soluble thickener and water

CM CORP 28.06.79-US-053044 (01.08.78-US-930037)

9.12.80) A23d-03 A23d-05 79 as 053044 (8pp955)

y fat spread contains fat, an oil-soluble or dispersible lipoidal sifier, having a plastic consistency, a capillary melting pt. less 135 deg.F and HLB not more than 5, a water-soluble or rsible thickening agent having surface-active properties, and r. The compsn. contains 20-40% low m.pt. fat, having Wiley 75-106 deg.F and solid fat index at 100 deg.F about zero. The ortions are such that the compsn. has a plastic consistency and ookfield viscosity of at least 100,000 cps. through a temp. range .90 deg.F.

e compsn. has a low calorific value, but has the appearance, our and mouthfeel of conventional margarine, and melts down in ame way when applied to hot food. It is storage stable and does

00685 D/01 ★US 4238-521 D13 II- * cillin removal from contaminated milk - by contact with vated charcoal

ENICILLIN ASSAYS 18.09.79-US-076600

302 (09.12.80) A23c-09/15 9.79 as 076600 (6pp476)

icillin contaminating a milk compsn. is removed by contacting compsn. with activated charcoal and then recovering the cillin-free compsn.

his also refers to the removal of other antibiotics by the same

hod. rocess is partic. useful for removing penicillin G.

00706 D/01 *US 4238-566 DE- ★ D13 xanthine oxidase-active enzyme concentrate - prepd. from raw ne milk, useful in clinical and industrial research NIV OF DELAWARE 21.01.80-US-114047 (15.06.77-US-806736)

1016) (09.12.80) C12n-09/02

80 as 114047 Div ex 4172754 (+23.2.79-US-014338) (9pp985) enzyme concentrate has (i) an ave. protein to flavin ratio sured by E(280 nm) for protein and E (450nm) for flavin) of 2-4.1,

(ii) one symmetric peak by ion-exchange gel chromatography; (iii) a single protein band by polyacrylamide disc gel electrophoresis; and (iv) a pH profile curve, at approx. optimum temp., of the change in initial velocity of uric acid productivity against change in pH which shows 2 peaks, one at pH 8.3 and the other at pH 8.7.

Milk xanthine oxidase has a low specificity for substrates and electron acceptors. It catalyses the oxidn, of many purines, pteridines, aldehydes and other heterocyclic cpds. by electron acceptors such as O2, NADH, dyes, ferricyanide and cytochrome C. Its presence in excess or absence, its inhibitor or stimulation reflects on the biochemistry of normal and abnormal cells e.g. uric acid prodn. and development of atherosclerosis.

D13 89622 A/50 = US 4238-567Nutritional protein prodn. from Trichoderma album - by culture on oxygenated liq. medium

INST NAT RECHAGRON 07.06.77-FR-017449

C03 + P13 (D16) (09.12.80) *BE-867-834 + C12n-01/2202.06.78 as 912017 (15pp954)

Prodn. of food proteins comprises cultivating the fungus Trichodermia Album (I-032) in liq. nutrient made at below 28 deg. C, while maintaining a pH of 3.7-4.8, with stirring but without causing lysis of the fungus and avoiding foaming. The N-content of the media is adjusted to 4.5% w.r.t. dry material and the dissolved O2 content is 6-10 mg per l.

The cultivation is carried out such that multiplication is negligible. A fermentation appts. for the prodn. is also described. Pref. the nutrient media is derived from agricultural prods., agroalimentary

industry rejects or protein substrate

GENO * D13 00728 D/01 *US 4238-604 Acetylated crosslinked starch prepn. - involves washing prod. to ash content less than 0.2 per cent to minimise acetyl odours and flavours GENERAL FOODS CORP 06.10.78-US-949177

A11 (A97) (09.12.80) C08b-31/02 06.10.78 as 949177 (4pp914)

Prepn. comprises (i) crosslinking and acetylating starch to an acetyl substn. of not more than 2.5%, (ii) washing the prod. to reduce the ash content to below 0.20%, and (iii) drying the starch.

Pref. a slurry of the acetylated crosslinked starch is formed prior to drying, and the pH of the slurry is adjusted to 7.0-9.0. Pref. the acetyl substn. of the starch is not more than 2.4%, esp. 2.1-2.4%, and the ash content is below 0.15%.

The process is esp. for the prodn. of chemically modified tapioca starch used in puddings. By washing to the specified ash content, acetyl odours and flavours can be eliminated or minimised.

See Also

D16 DS2444947 D16 US4237693

D14: FOODSTUFF MACHINERY

D/01 ±CS 8000-648 D14

n peeling and cutting appts. DRYSEK V 31.01.80-CS-000648 5.09.80) A23n-15/08

00040 D/01 *DE 2923-100 tins charging station - which pushes tins on pallets lowered by mechanism inside frame

TMOS LEBENSMITTELT 07.06.79-DE-923100

3.12.80) A231-03

79 as 923100 (12pp39) chine to load frames with pallets carrying tins of food, ready narging them into an autoclave for sterilisation uses frames out side walls which are loaded, one at a time, on a lifting jack. Pallets in the frame are raised by the jack into a store above, of the bottom pallet. This is charged with tins sideways from a by a pusher cylinder.

er each layer has been charged, the jack is lowered and another is dropped until the frame is full. It is then pushed out

rays and taken to the sterilising autoclave. s plant eliminates all unnecessary transport operations. The sweigh less and allow better access to the sterilising medium.

00143 D/01 *DE 2924-098 D14 valve for perishable food - with upstream ball sealing disc ring full hydrostatic pressure

TELMANN & CO 15.06.79-DE-924098

(18.12.80) A23g-03/02 F16k-05/20

79 as 924098 (12pp39)

ll valve has a spherical plug which is coupled to the drive te. The ball itself is located in the valve housing between two al sealing discs which contact the ball with a certain preload. busing for the sealing disc at the inlet side of the ball valve is so designed that the area of the sealing disc opposite to the area contacting the ball receives the full force of the pressure of the cutoff lia.

This surface area of the inlet sealing disc is at least equal to, but preferably greater than the clear passage area of the sealing disc.

This creates a ball valve in which any detrimental effect of deposits has been eliminated The valve is therefore ideal for perishable food such as chocolate where deposits may spoil later batches. Both sealing discs are now kept firmly pressed against the

00162 D/01 *DE 2924-199 DPON/ * **D14** Ice cream portion scoop - with counter for every turn of the ice detaching wire loop

DAPONTE BECHER B 15.06.79-DE-924199

(18.12.80) A23g-09/2815.06.79 as 924199 (10pp39)

An ice cream dispensing scoop is a hemispherical cup in which a semicircular wire loop can be turned to detach the portion. The turning motion is carried out by compressing two pincer handles to move a rack attached to one handle relative to a pinion, supported on a bracket of the other handle. This pinion turns a shaft with the detaching wire loop at the end. Each operation of the pincers also moves a lever between two pins which advances the position of a mechanical counter by one digit.

This is a simple device which can be produced at low cost. It provides an exact check of the number of ice cream balls issued by the salesman and cuts out any arguments. It also prevents them

from playing with the tools empty and wearing them out.

00348 D/01 *GB 2049-455 Mixing and dispensing appts for animal feed, with rotor operable at slow mixing speed and faster discharge speed

HOW ARD MACHELTD 00 00 80 GB 009357 (21 02.78 GB-006784)

(31.12.80) B01f-07/02 B01f-15/02

24.04.79 as 009357 (7pp295) Appts comprises a part cylindrical container which has a rotor shart extending axially of it. Rigid arms are secured to the shaft at spaced intervals. The ends of the arms are adjacent the inner wall of the container. The shaft is rotated at 5-15 r.p.m.

There is a filling and discharge opening in the upper part of the container. The speed of rotation of the shaft and arrangement of the appts, are such that the container can remain open during mixing without inadvertent discharge of material. An external conveyor parallel to a side edge of the container opening removes discharged

00483 D/01 *US 4237-782 Vegetable washing scrubbing or peeling appts. - with rotating rollers D14 STAR- * forming trough within which double helix tumbles vegetables

STARR INC 27.11.78-US-963794

(09.12.80) A23n-07/02 27.11.78 as 963794 (8pp295)

Fruits and vegetables are processed using rotatable rollers arranged about a common axis to define a U shaped trough. Each roller has a fixed position relative to the trough but is rotatable about its own axis. Each roller is driven independently.

The products to be processed are mobilised by a helix rota the trough to lift the products with a tumbling action. To rotatable augers at both the inlet and outlet ends of the trough

Prod. load and the degree of processing is controlled b individual and independently controlled hydraulic motors processing rollers, prod. mobiliser appts. and waste auger.

00650 D/01 *US D14 Roller and ring extrusion press - having means to sense slip t ITOC- * roller and ring and control material feed to prevent blockage INT OCTROOI MAATSC 03.05.79-US-035782

S02 T06 (09.12.80) B29f-03/*

03.05.79 as 035782 (7pp525)

In an extrusion press of the type in which material is ex through a die ring by a roller moving relative to the rin between the ring and the roller is sensed (or the rate of charge and a feed parameter (e.g.temperature or feed rate) is adju prevent blockage of the die ring which, it has been found, no ensues soon after slip begins.

In pref. embodiment, devices such as tachogenerate proximity detectors measure the rotation of the ring and rolle difference signal signifying the degree of slip is used to contro Blockage is prevented. A quoted use of such a press is the r

pelleted animal feed.

D15: WATER TREATMENT

D/01 + CS 7804-052 RIHA/ * D15

Waste waters elimination

RIHACEKL 20.06.78-CS-004052

(15.09.80) C02f-01

D/01 *CS 7806-995 D15 TRUB/ *

Complex processing of difficult to decompose emulsions

TRUBACK 27.10.78-CS-006995

(15.09.80) B01d-17/04 C02f-11/14

D/01 + CS 7807-753 D15 Appts. eliminating oily cpds. from fluctuating surfaces LARISCH V 27.11.78-CS-007753

H03 (15.09.80) C02f-01/40

D/01 *CS 7900-555 D15

Aerobic processing of pig farm waste

SPILKA V 25.01.79-CS-000555 (15.09.80) C02f-03/12

D/01 + CS 7901-169 D15 HEJD/ *

Purificn. of effluent from nitrobenzene or nitrotoluene prodn.

HEJDAZ 22.02.79-CS-001169

E14 (15.09.80) C02f-09

D/01 + CS 7906-173 D15 Rapid water filters attachment - for water filtration and filtering agent regeneration

NOVAK V 12.09.79-CS-006173

(15.09.80) C02f-01

D/01 *CS 7907-158 HERE/ * D15

Impurities elimination during water processing

HEREITF 22.10.79-CS-007158

(15.09.80) C02f-03/08

D15 D/01 + CS 7907-864 Emulsion electro-coagulation and flocculation breaking appts.

RIPPAF 19.11.79-CS-007864 (15.09.80) C02f-01/46

D/01 *CS 7908-676 BART/ * Water purificn. and treatment appts.

BARTAK L 12.12.79-CS-008676 (15.09.80) C02f-01

KOMO/ ★ Elimination of organic acids from aq. solns.

KOMORAL 16.01.80-CS-000317 E19 (15.09.80) C02f-01/58 C07c-51/42

D/01 + CS 8000-317

00013 D/01 *DE 2 LINM * D15 Biological waste water purificn. - by increasing oxygen content gasifying and before dividing waste water and activated mixt. into purified water and sludge

LINDE AG 05.06.79-DE-922719 (18.12.80) C02f-01/72 C02f-03/12

05.06.79 as 922719 (11pp200)

In biological waste water purification comprising (i) waste gasification with air in the presence of activated sludge, (ii) d off the waste water-activated sludge mixt. from gasifying zo: dividing into purified water and sludge in an after-clarifier a recycling at least part of sludge to gasifying zone, the content of the waste water-activated sludge mixt. is increase gasifying and before dividing into pure water and sludge, p that 5-25(10) mg/l oxygen are maintained in after-clarifier.

Aerobic conditions and BOD degradation in after-clarifying are achieved. Waste water dwelling time in activating tank

shortened and activating tank size can be kept small.

00015 D/01 ★DE 2 LINM * D15 Two/step biological waste water purificn. - by gasifying with first and with oxygen enriched air in last stage of second step LINDE AG 05.06.79-DE-922761

(18.12.80) C02f-03/12 05.06.79 as 922761 (17pp200)

Waste water is purified biologically in a 2-step sludge acti plant, most organic impurities being degraded in first step w residual degradation and inorganic N cpd. oxidn. take pl second step. Novelty consists in gasifying the liq. charged to step in at least 2 separate second step gasifying zones. Ga. takes place with air in at least the first gasifying zone, o atmos., and with a gas contg. more vol.% oxygen than air in a

High oxygen contents are maintained in after-clarifying ste sludge damage by denitrifying is prevented. Nitrification effi

can reach over 95%.

the last gasifying zone.

D15 00021 D/01 *DE 2 Biological waste water purificn. - by waste water and act sludge gasification with atmos. air in open and with oxygen-riin closed zone

LINDE AG 05.06.79-DE-922828 (18.12.80) C02f-03/12

05.06.79 as 922828 (14pp200)

In biological waste water purification in at least 2 consegasifying zones in the presence of activated sludge, the consisting of waste water and activated sludge is gasified atmos, air at least in the first, open gasifying zone and with which is more highly oxygen-enriched than air in at least the

The process can be used for purifying waste water from a carcass processing plant and from seasonally operating plant sugar factories. Organic impurity decompsn. and inorganic oxidn. take place in separate zones. Dilution of expensive or enriched gas is prevented. Oxygen-content of discharge led to clarifier allows the maintenance of aerobic conditions.

00068 D/01 ★DE 2923-576 leaning filter, esp. for drinking water - where elastic fabric iges solid particles collected on fine filter fabric ESSMANN WERKE KG 11.06.79-DE-923576

8.12.80) B01d-27/12

79 as 923576 (9pp1144)

ilter consists of a tubular grid, which is e.g. a monolithic plastic ding with longitudinal ribs forming a circular row round the ding. The ribs are covered by a coarse fabric mesh (I) and then e filter fabric (II). A liq., esp. drinking water, flows through c (II) first, and then through fabric (I); and the filtered water is ved from the interior of the tubular grid.

bric (I) is elastic, and is forced inwards onto the grid by the sure of the water being filtered. When the water is switched off, pring in fabric (I) forces the latter outwards, thus pushing fabric o particles collected on fabric (II) fall off, thus increasing the

ing life of the filter.

00125 D/01 ★DE 2923-956 E * rmn. of light substances in waste water - by using float sepn. of substances, and ascertaining residue of emulsified and/or lved material

ASSAVANTW MICHELBACHER 13.06.79-DE-923956

04 S03 (18.12.80) G01n-33/18

.79 as 923956 (9pp391)

light substances are present in the waste water in separable, sified and dissolved form. First the separable component on is removed from the specimen by flotation and this volume is rmined. Then the volume of the emulsified and/or dissolved substances in the specimen residue is determined. Preferably irst portion is determined by solvent extraction after flotation, measuring the light substance concentration in the extract.

e solvent extraction is also used for the specimen residue to rmine the emulsified and/or dissolved component portion. For purpose two extraction vessels are connected in series and are ectable by suitable valves to a concentration meter. Both els and the meter have supply lines for the solvent, the action vessels being optionally fitted with stirrers, at least one of h may be coupled with a sprinkler.

00132 D/01 ★DE 2924-048 tric conductivity monitor for highly purified water - has tronic switch connecting display and/or actuator to source only, lelectrodes are dipped in water

LHAUSER E 15.06.79-DE-924048

13.06.79-DE-924048

13.06.79-DE-924048

.79 as 924048 (10pp391)

water of high purity, whose electric conductivity is monitored, is lied from a generator, or reservoir. The monitoring is carried ya display and/or actuating device which is controllable by the ric current between two spaced electrodes, located in the flow of monitored water. The display and/or actuating device is ected to an electric power source by a switching device only the two electrodes are dipped in the water.

e switching device is preferably actuated mechanically by the ed water and may be in the form of a water pressure actuated h. This pressure may be generated by a dam or a throttle in the flow path, while a differential pressure switch may be used. A ury switch, or a float switch may be also used in the system. monitoring system finds typical application in the naceutical industry.

00214 D/01 *DE 3009-707 D15 act treatment system for water or sewage - with flocculation ttling chamber in common housing

DGOSKIE BIURO PRO 05.06.79-PL-216133

.12.80) B01d-21 C02f-01/52

30 as 009707 (9pp39)

ification plant for water or sewage consists of a flocculation per in a common housing with a settling chamber. The former trapezoidal bottom, with inlet pipes directing the influent ward on both sides of a triangular projection. Side walls with ges separate the inner chamber carrying horizontal layers of ng through which the liquid ascends, from the housing walls. settling chamber with its sludge extraction at the bottom is

ed through an overflow and a descending passage. It has in its e part a laminated counterflow stack, and an effluent trough

purified water in its top. system requires no mechanical agitators and represents a ct unit which can be accommodated in a container of standard

00299 D/01 ★DE 3022-273 D15 ne di:oxide generator giving chlorine-free aq. soln. - for *cting sewage and power station cooling water *CHER & PORTER LTD 14.06.79-US-048633

(18.12.80) C01b-11/02

0 as 022273 (22pp16) enerator for the prodn. of Cl2-free ClO2, esp. for use in a s, has a reactor with 2 inlets and an outlet. There is a supply of aq. NaClO2 to one inlet and a supply of unpressurised Cl2 gas to the other inlet, so that gas is only drawn into the reactor when reduced pressure is present, when the Cl2 reacts with NaClO2 to produce ClO2. An ejector is coupled to the outlet and operated by a water stream, so that a reduced pressure is produced and the ClO2 is drawn from the reactor into the ejector for mixing with the water stream, and a dil. ClO2 soln. is discharged, which can be passed to the process. There is also a reduced pressure regulator between the Cl2 gas supply and inlet.

Generator gives ClO2 in a concn. suitable for use as disinfectant for sewage treatment and power station cooling water systems and

is economical in operation.

72776 Y/41 = DS 2711-528Continuous dewatering of flocculated sludge with screen drum -contg. conveyor screw, with screen mesh size decreasing in direction of travel

KOPALNIA WEGLA KAMI (BOLE-UYCU) 27.03.76-PL-188312

(18.12.80) *DE2711-528 B01d-17/08 B01d-33/06

16.03.77 as 711528 (3pp1045)

The mesh of the gauze in a strainer drum for dewatering flocculated sludge, increases in size continuously from the inlet to the outlet. The carrier ribs distributed uniformly around the inner circumference are parallel to the axis of the drum and extend over its full length.

The dewatering is effected by the hydromechanical and mechanical treatment in the drum which is inclined upwards relatively to the horizontal. Rinsing nozzles are positioned above the worm transporter, and the low output of conventional filters, centrifuges and presses for this purpose is avoided.

A solid prod. with a low water content is obtd. which can be transported by normal conveyors. Only small amts. of low grade flocculants are required and the clean water can be recovered.

82185 A/46 = DS 2830-972 D15 Electrodialysis and ion-exchange treatment of ionised soln. - partic. water from prim. cooling circuit of nuclear reactor BABCOCK & WILCOX CO 22.07.77-US-817952

E36 J01 K05 (18.12.80) *BE-868-885 B01d-13/02 B01d-15/04 G21c-19/30 G21f-09/12

14.07.78 as 830972 (8pp068)

A cell separates an ionised soln. into streams of concd. acid, conc. lye and deionised medium, e.g. cooling water for nuclear reactors is sepd. into pure water, conc. boric acid and LiOH.

The cell comprises a mixed bed of anion and cation resins with an anion membrane on one side and a cation membrane one other side. Next to the anion membrane is an anion resin layer, then a cation membrane and finally an anode which is arranged with an interval from the anion resin and cation membrane. Next to the cation membrane is a cation resin layer, then an anion membrane and finaly a cathode, which is arranged with an interval from the cation resin and anion membrane.

14933 C/09 = DS 2835-709ROED-D15 Sewage flotation system - with air dissolution in pressure-tight tank and pressure relief valves in cell walls
ROEDIGER W CO GMBH 16.08.78-DE-835709

(18.12.80) *DE2835-709 B03d-01/04 + C02f-01/24

16.08.78 as 835709 (6pp1045)

The pressure vessel of a plant for clarifying water and densifying sludge by the detented flotation process, has a water jet injector, and in its upper section a compressed air cushion. Air is sucked in from the cushion and dissolved in the filling of water below for delivery through pressure reducing valves into the flotation vessel, which is fitted with a scavenging mechanism.

The plant can be mfd. and operated more economically, and it has

D/01 **★FI7901-165**

a greater efficiency as regards flotation.

LUKK/ * D15 Oil sepn. from water surface LUKKARINENT 09.04.79-FI-001165 (28.11.80) C02b

84363 A/47 = GB 1581-985D15 ROHR/ Water and waste water purification - by catalytic oxidn. promoted by free radical forming activated dissociated or ionised gas

ROHRER E 14.04.77-CH-004659

(31.12.80) *DE2815-430 + C02f-01/72

12.04.78 as 014365 (4pp931)

COD of water and waste water loaded with oxidisable substances is reduced by continuous catalytic oxidn. The catalyst used utilises a promoter contg. an excited, dissociated and/or at least partially ionised gas and/or gas mixts in amt forming a sufficient number of free radicals which initiate the oxidn., and continuously regenerate or reactivate the deactivated catalyst. Pref. atmospheric air is used to form the promoter, and the ratio of positive to negative ions in the gas or mixt is 2-5:1.

Method is esp used for producing potable or drinkable water.

79282 B/44 = GB 1581-989 Activated sludge treatment of sewage - in one open and two closed stages with specified oxygen concn. for oxidation and flocculation

OSAKA GAS KK 15.04.78-JP-044708 (31.12.80) *DE2821-054 + C02f-03/12

09.05.78 as 018545 (8pp931) Waste water contg a BOD component is treated by micronising an activated sludge in the water to achieve a floc size less than 200 microns such that the cells are not broken nor destroyed; then blowing in an O2-contg. gas to oxidise the component adsorbed by

the sludge and flocculate the sludge. Pref the micronising step yields a floc size less then 160 microns, and the oxygenation step uses a gas of O2 concn. of 30 vol% or more. The two steps may be respectively carried out in separate

treatment zones.

Waste water is treated by the process within a short residence

time with prodn. of a reduced amt of excess sludge.

63110 Y/36 = GB 1582-005D15 Gypsum granules for absorption on liquids - used to absorb oils, fats, water e.g. animal excrement, as supports for chemicals e.g. agriculture and as soil conditioning agents

OIL-DRI CORP AMERIC 04.05.76-US-683090 C03 + P35 (D22) (31.12.80) *BE-854-274 A62d-03 B01j-19/04 + C01f-

11/46

01.04.77 as 013907 (9pp977)

Granular material comprising calcium sulphate is mfd by (1) providing plaster and water to mixing appts in predetermined proportions in the range 15-50% water 85-50% plaster; (2)spreading the batch material into a shape suitable for setting; (3)permitting to set, harden and dry; granulating; and (4)screening to segregate into different samples.

Pref the size range is screen size 4 to screen size 60(U.S. sieve series). Oversize particles are recrushed. Pref. the granules are calcium sulphate dihydrate. The granules are used for mositure absorption in oil and grease absorption, as refuse in animal toilet

boxes and as carriers for agrochemicals.

57918 Y/33 #GB 1582-017 TSZE Purifying dung water from cattle stables - by homogenising, coagulating filtering, and purifying filtrate biologically and chemically and neutralising

TATABANYAI SZENBANYAK 07.02.76-HU-TA1384 (05.08.77-

GB-032983)

(31.12.80) *DE2703-842 C02f-01/52 C02f-03/12 + C02f-09+ P11 P14

05.08.77 as 032983 (4pp931)

Liq manure with a high content of organic materials is purified by aerobically homogenising it without phase sepn. then treating with chemical coagulants such that the liq and solid phases are sepd on a pressure belt filter.

The liq phase is purified in a biological active sludge purification plant, and the biologically purified filter water subjected to chemical post-purification with lime after removal of the activated

The pptd. organic materials are sepd from the purified water in a settling tank, the water neutralised with CO2 or by storage, and the ppte sepd off in a settling tank. The manure is esp obtd from large stables where livestock are kept.

THOR-★ D15 00347 D/01 ★GB 2049-454 Device for domestic aerated beverage prepn. - has gas nozzle projecting from stopper with safety valve

THORN CASCADE CO LT 07.02.80-GB-004191 (14.05.79-GB-

016622)

(31.12.80) B01f-03/04 B01f-13/04

07.02.80 as 004191 (4pp295)

A container of pressurised carbon dioxide is located in a housing and supplies a carbonating nozzle via a valved conduit. The nozzle extends from a stopper which is placed in the mouth of a liquid-filled bottle removably secured to the appts.

The stopper has a bent aperture normally covered by a resilient membrane and leading to a safety valve. The membrane yields at 20% of the design pressure of the safety valve. Pref. the liquid bottle is located in a shatterproof, translucent housing pivoted to the housing. Aeration is initiated by operating a lever which opens the carbon dioxide valve.

The membrane provides a slight back-pressure on the bottle to assist in its removal from the appts. The membrane also retains froth and prevents it from reaching the safety valve and possibly

rendering it ineffective.

VERS/★ D15 Aq. effluents purificn. appts. VERSINO C 09.09.75-IT-069243 (20.10.80) CO2f

D/01 *IT 1047-984

34119 B/18 = J8 00 D15 TOAD-Removing sulphur lons from liq. sample e.g. river water - t determn. of cyanide concn., by fixing cyanide as ferrocyanid acidifying to evaporate hydrogen sulphide gas TOA PENPA KOGYOKK 31.08.77-JP-104641

(29.11.80) *J54038-187 G01n-31 + G01n-27/46E36 J04 S03

33/18

31.08.77 as 104641 (4pp50)

Method comprises adding ferrous sulphate (Fe(SO4) and/or fe ammonium sulphate (Fe(NH4)2(SO4)2.6H2O) to the sample liq. cyanide (CN) contained in the sample liq. as ferrocyanide com reducing the pH value of the sample liq. to less than 2.0 wit addn. of H2SO4 etc., and thus sepg. and removing sulphu contained in the liq. as H2S gas. Pref. KMnO4 soln. is added t sample liq., to oxidise and remove remaining sulphur ion.

Sulphur ions interfering with the determn. of total cyanide co by ion-selective electrode method can be satisfactorily rem with high removing rate by simple operation. The method is u for the determination of total cyanide concn. in river w

industrial exhaust water, etc. (J54038187)

00446 D/01 *J8004 D15 Device for purifying water - includes a vessel which can be tower the sea, a solid-liq. separator and an aerator

EIICHI ARAKAWA 06.03.75-JP-027390 Q24 (03.12.80) B01d-17/02 B01d-21 B63b-35/32

06.03.75 as 027390 (5pp26)

Method and device for purifying dirty water contg. oil, sludge, are claimed. The device comprises a vessel, which can be towe the sea, solid-liquid separator for sepn. by the overflow effective liquid, and an aerator. (J51102353).

D15 00447 D/01 *J8004 Appts. for agglomerating insol. material in waste water - comp separator chamber, skimmer and precipitator contg. inc parallel plates

MITSUBISHI ELECTRIC CORP 21.00.74-JP-000805

(03.12.80) B01d-21/02 C02f-01/24

21.12.73 as 000805 /74 (5pp26)

treating a waste water such that insol. substances Appts. agglomerated into flock and precipitates is claimed. It compris separator chamber, skimmer for skimming flock, and precipit contg. inclined parallel plates. (J50091950).

OKAZ- * 00448 D/01 * J8 004 D15 Muddy water treating appts. - comprises a circular sedimenta tank, annular plates and a tube to supply agglomerant

OKAZAKI KOGYO KK 19.07.76-JP-086111

(03.12.80) B01d-21/08 19.07.76 as 086111 (4pp26)

A device for treating muddy waters is new. It comprises a circ sedimentation tank annular plates coaxially disposed in the 1 and cylindrical tube vertically disposed in the centre of the tal feed in agglomerant. (J53012151).

00450 D/01 * J8 0041 D15 Device for filtering waste water - comprises filter chambers filter cloths and air chamber connected to diaphragms to dev sludge cake

HITACHI CONSTRUCT MACH 09.03.77-JP-024761 (03.12.80) B01d-25/12

09.03.77 as 024761 (5pp26)

Device for filtering waste water under pressure comprises chambers, each having filter cloths air chamber connecte rubber plates (diaphragms) held with retainer plates at both sic each centre plate so as to cover each air chamber to dewate sludge cake in the chamber.(J53110173).

MITO ★ 00451 D/01 * J8 0048 Filter press for treating waste water - comprises filter frames. cloth and diaphragms, arranged alternately between end plates MITSUBISHI HEAVY IND KK 29.03.77-JP-034995

(03.12.80) B01d-25/12 29.03.77 as 034995 (4pp26)

Press comprises filter frames, filter cloths, and diaphra arranged alternately between end plates. Each diaphragm projections at the marginal area and flat plate is attached at side of the marginal area opposite to projections fitted into gre of filter frames. (J53119473).

D15 59038 W/36 = J8 004H Removal of liquids from sludges - on a continuous filter belt wi the assistance of suction

GEBR BELLMER MASCH 27.02.74-DE-409269 J01 (03.12.80) *DE2409-269 B01d-33/04

18.02.75 as 020286 (3pp)

In a device for the removal of liqs. from sludges by gravity sepi sludge is deposited on a moving endless filter belt through whic ows. The flow of the sludge is distrubed by devices stationary

respect to the belt, which reach down into the sludge.
vice is useful in the applications dewatering of sewage sludge, making and chemical industry sepn.processes. The sepn ency is increased using only a small amt. of energy.(J50125366).

D15 00452 D/01 *J80047-931 ce for carbonated drinking water prodn. - comprises mixer, tion accelerator with stirrers and pressure reducer connected to erator

ATSUSHITA REIKI KK 16.06.76-JP-071529

3.12.80) A231-02 B01f-01

76 as 071529 (2pp26)

levice comprises a mixer for mixing water with carbon dioxide. tion accelerator having stirrers for converting the gas-liq. mixt. a liq., and pressure reducer connected to the accelerator.

D15 58451 Y/33 = J80047-958ment of exhaust gas desulphurised waste liquor - contg. alkali l (bi)sulphites and heavy metals, by addn. of heavy metal salts mplex or precipitate the metals already present PPON CHEM IND KK 26.12.75-JP-154760

(03.12.80) *J52079-562 +B01d-53/34 C01d-05/16 C02f-36 J01

.75 as 154760 (7pp34)

e gas-desulphurised waste liquor contg. an alkali metal alphite, heavy metals, e.g. V ion, Ni ion, Fe, Pb, Zn, etc. and floated matters etc. is treated by adding salt(s) of metals from r, Mn, Fe, Co, Zn, Cu and Pb, pref. sulphate or chloride at pH 5.5form insol. complex salt of V ion and insoluble hydroxides of ther metals. Solid-liquid sepn. gives a purified sulphite-contg. contg. negligible heavy metal ions.

ernatively, the purified sulphite-contg. soln. is oxidised by tion at pH 5.5-9.5 and above 40 deg.C to recover a purified alkali

1 sulphate. (J52074562).

00470 D/01 ★US 4237-618 D15 anical dewatering of sludge - by passing through serially connected porous cylinders with internal helical conveyors OP INC 22.03.79-US-022910 (08.03.77-US-775673)

(09.12.80) F26b-07

79 as 022910 (10pp295) C.i.p. 4098006, 4121349, 4128946, 4140452,

32,4161825,4193206(+7.7.77(2),20.10.77,8.12.7

ludge is passed into one end of a first zone including a porous d cylinder. The feed stream is pressurised by rotation of a conveyor within the cylinder. A continuous and unagitated of filter media comprising fibres from the feed stream is tained between the inner surface of the porous wall and the al outer edge of the conveyor while organic waste within the al end is passed to the second end of the cylinder.

ter is withdrawn radially from the first zone while a stream a higher solids content than the original feed stream is rawn from the second end. This stream is depressurised and passed into a second similar zone. The process is again ited and the solids stream passed through a third similar zone. process may be used for dewatering sewage sludge or wood scraps. The feed stream initially has at least 5 wt.% fibres,

the final stream comprises over 60 wt.% solids.

00585 D/01 *US 4238-296 D15 ination by flash evaporation - after multistage direct contact ig with hydrocarbon vapour reducing scaling CIDENTAL RES CORP 17.05.78-US-907143

.12.80) C02b-01/06 '8 as 907143 (8pp295)

ater is heated by direct heat transfer and then transferred to a evaporator. Condensate from the evaporator creates a pure

stream as a prod.

heating of the salt water takes place in typically three stages porator-condenser units each contg. a low boiling point, watercible liq. hydrocarbon. The hydrocarbon is heated by hot pure and its vapour bubbles through salt water to heat it.

carbon vapour is condensed in each stage and recycled to the ated evaporator. Hot water flows through the stages counterat to the flow of salt water.

direct heat transfer to the salt water reduces scaling.

40684 B/22 = US 4238-297 D15 natic determn. of organic substances in water - by titrating st acid potassium di:chromate, and back titrating with ferrous

EMENS AG 01.02.78-DE-804267

9 J04 S03 (S05) (09.12.80) *BE-873-833 G01n-27/42

9 as 002536 (10pp393)

mn. of dispersed water-immiscible solid organic material in re water comprises (a) adding known amt. of H2SO4 and)4 to a defined amt. of sewage water, (b) admixing K2Cr2O7 soln. with the analysis sample so obtd. and (c) heating the resulting reaction sample up to its b. pt. and maintaining it there with all of the O2, released from K2Cr2O7 soln. during redn. of Cr(6+) ions into Cr(3 +)ions, reacts with and oxidises the organic material.

The residual Cr(6+) ions in the reaction sample are detd.by titrating the sample with Fe(2 +) ion-contg. soln. so that the reaction; Cr2O7 (2-) + 6Fe(2+) + 14H(+) to 6Fe(3+) + 7H2O occurs. The consumed amt. of Fe(2+) ion-contg. soln. is measured by titration, comprises an indirect indication of the amt. of organic materials in the sewage water. The required amt. of Fe(2+) ions for the titration is generated via calometric redn. in Fe(3+) ion-contg. soln. during the prepn. and reaction of the reaction sample.

D15 00597 D/01 *US 4238-325 Ion exchange appts. for treating liq. - has two treating chambers, one loosely packed with resin particles and the other filled

FLUID POWER RES INC 20.09.78-US-943771 (15.06.73-US-

370235)

J01 (09.12.80) B01d-15/04

20.09.78 as 943771 Div.ex.3960721 (+19.2.76.25.10.77-US-659381.845129)

Appts. for treating liq. with ion exchange material which prevents reverse ion exchange following regeneration and rinsing of the ion exchange resin comprises two interconnected treating chambers, each contg. a bed of 50 mesh or smaller ion exchange resin particles. In the first chamber the bed occupies the entire vol. of the chamber and in the second the bed occupies less than the entire vol.

During the treating mode the particles in the second chamber are loosely distributed by the upward flow of fluid. During the regeneration mode the particles form a packed bed in surface-tosurface contact with the bottom of the chamber due to gravitational

forces and downward flow of regenerant and rinse fluid.

Used for treating water for industrial and domestic use. The particles in the second chamber exhibit more efficient ion exchange ability when the appts. is in regeneration mode than when it is in treating mode.

D15 63162 B/35 = US 4238-328Elimination of heavy metal ions from waste waters - using adsorbents prepd. from amino cpds., haloacetic acids and reactive halide(s)

CIBA GEIGY CORP 24.02.78-CH-002036 A97 (A26) (09.12.80) *BE-874-398 C02c-05/08 + C02b-01/60

14.02.79 as 011970 (8pp974)

Heavy-metal ions are removed from an aq. soln. by bringing the soln. into contact with a water-insol.-adsorbent. The adsorbent is produced from a basic polynitrogen cpd. (I), an (ar)aliphatic carboxylic acid (II) and a crosslinking compound (III). (I) is capable of being acylated. (II) contains mobile substits. or a multiple bond capable of undergoing addition. (III) contains at least two reactive substits. and is different from (II). Pref. (I) and (II) are reacted and their product reacted with (III).

Process is esp. for effluent purificn.

00600 D/01 *US 4238-329 Recovery of heavy metals from water contg. fluctuating concn. - by passage through filter coated with diatomaceous earth and insol. starch-xanthate while adding filter-aid and starch-xanthate upstream

INDUST FILTER CORP 14.09.79-US-075587 (25.08.75-US-607549)

A97 J01 M25 (09.12.80) B01d-15/04 14.09.79 as 075587 (+17.7.78-US-925056) (5pp960)

Recovery of heavy metals from a continuous stream of water contg. a fluctuating concn. of metal comprises (a) passing the water through a filter coated with a mixt. of diatomaceous earth (I) and insol. starch-xanthate (II) in ratio 1.75-3.0:1 and (b) continuously adding (I) and (II) upstream of the filter in ratio 1.75-3.0;1

The amt. of (II) added upstream is sufficient to react with the min. concn. of metal but insufficient to react with its max. concn. The

ratio of (I) to (II) is pref. 1.75-2.0:1.

The method is esp. used to recover Cu,Ni or Zn e.g. from water contg. 10-30 ppm Cu, and may be effected in conjunction with other continuous treatments.

24106 C/14 = US 4238-331BRPE Filtration of sea water, esp. for secondary oil recovery - with addn. of dispersant for organic impurities

BRITISH PETROLEUM LTD 01.11.76-GB-045275 A97 H01 Q49 (09.12.80) *GB1564-025 + C02f-01 27.06.79 as 061198 (+ 1.11.77 -US-847422) (4pp977)

Treatmentof seawater contg. waxy lipids to prevent clogging of a filter comprises (1) adding nonionic dispersing agent before the seawater is filtered to maintain waxy lipids in a dispersed state and (2) passing the seawater through a filter medium comprising fibres not negatively charged at the pH of seawater to remove solid

Pref. the filter medium comprises fibres having dia. 8-15 microns.

The dispersing agent has HLB value in the range 8-18.

Method is used in the recovery of oil from offshore locations.

00602 D/01 * US 4238-333 Separator for removing oil from waste water - operated in two distinct phases automatically controlled by float switch

TIDWELL CONS 08.10.78-US-949364

P41 (09.12.80) B03d-03

06.10.78 as 949364 (9pp295) Waste water is treated to remove oil, sand, and other solids. In a first phase the water is fed into a settling chamber via a grid to remove large solids. Oil floats to the surface and the water is permitted to flow under a barrier into a clear-water chamber. Clear water is discharged over a first weir which determines the liq. level during a first phase of operation.

When a predetermined depth of oil has collected in the settling chamber the waste water feed is terminated and the clear-water discharge is blocked. Liq. is pumped into the bottom of the settling chamber to raise its liq. level to the top of a second weir higher than the first. Oil flowing over the second weir is removed. Sediment is

scraped from the bottom of the settling chamber.

The separator removes oil from waste water to render the water

sufficiently pure for discharge into a sanitary sewer.

00603 D/01 *US 4238-334 Removing impurities from liq. streams using filter bed - of fibrous D15 filter aid treated to give surface charge and an oppositely charged active particulate material to cause clumping

ECODYNE CORP 17.09.79-US-076065 (04.04.74-US-457821)

(09.12.80) B01d-37/02 A88 J01

17.09.79 as 076065 C.i.p. 4177142 (+ 27.9.77-US-836967) (7pp513) Impurities are removed from liquids by passing the liq. through a filter bed comprising a mixt. of treated fibrous filter aid material (I) and an active particulate material (II). The (I) and (II) have opposite surface charges in aq. suspension and the mixt. produces a clumping phenomenon. The (I) makes up 5-95 wt.% of the filter bed, and is treated with an electrolyte-type cpd. that produces a surface charge opposite to the normal surface charge by bonding to the surface of

Suitable (I) is e.g. cellulose fibres, polyacrylonitrile fibres, PTFE fibres, nylon fibres, rayon fibres, polypropylene fibres or PVC The surface charge on (I) is pref. produced by treatment with a cationic organic polyelectrolyte such as polyalkylene-imines, polyvinylbenzyl quat. ammonium salts, vinylbenzylsulphonium polymers, etc. (II) is e.g. an organic polymeric sorbent, zeolites, zirconium oxide, zirconium phosphate, activated alumina, ferrous sulphide, activated carbon or diatomaceous earth. The clumping action of the (I) and (II) produces filter beds capable of removing toxic impurities with very high efficiency maintaining a low press. drop across the filter bed.

00605 D/01 *US 4238-336 D15 Diffuser for waste sludge treatment - has radial array of pipes in sludge basin for air introduction

BULTMAN L E 24.05.79-US-042042

(09.12.80) B01d-21

24.05.79 as 042042 (6pp295)

A bed of sludge is treated by injecting air under pressure into the mass at locations positioned between the top of the mass and the basin bottom. The air is at a sufficient velocity and volume to diffuse the sludge until it can be handled like a fluid. The sludge is pumped from the basin into a conveyance which carries it to a disposal area.

The appts. used includes a system of pipes spaced along the entire bottom of the basin each extending inwardly towards the centre of the basin. Each pipe has an air outlet consisting of a pair of diverging orifices directed towards the bottom of the basin.

Useful for treating a sludge which may result from water-treatment with a flocculant. The sludge alternatively may be derived from sewage or industrial waste treatment.

D15 00606 D/01 *US 4238-337 Appts. for producing methane gas by fermenting organic wastes has automatic temp. control and solar energy and wind power as external heat sources

PETERS M F 09.02.79-US-010689 E17 H06 (09.12.80) C02f-01

09.02.79 as 010689 (7pp920)

Appts. for producing methane by the biological decomposition of waste matter comprises (a) a container for holding the waste, (b) a rotatable shaft enclosed in a cylinder of electrically conductive material and being provided with magnets which rotate with the shaft and generate electric eddy currents providing a first heat source, (c) paddle means coupled to the shaft, (d) at least one external heat source for increasing the temp. of the waste within the container, (e) a power source for the shaft and paddle wheels which provide a second heat source in the container, (f) temp. control means, (g) means for introducing waste into the container, and (h) outlet means for removing methane gas and excess heat from the container

The appts, produces methane and other gases from sewage and other organic wastes. It may use solar heat for heating the digester

and wind power for turning the paddle wheels for further (fri heat generation. Automatic operation for optimum temp. ce provided.

00607 D/01 + US D15 SANI- * Sewage treatment appts. with interconnected chambers microorganism auto-digestion occurring in final chamber SANILOGICAL CORP 05.03.79-US-017736 (26.09.77-US-836

(09.12.80) C02f-03/20

05.03.78 as 017736 C.i.p. 4142975 (+ 2.10.78-US-947780) (9pp295)

An appts. for treating sewage includes at least three s connected chambers. Each chamber is cylindrical and has a v conduit mounted within it spaced from its end walls and its end terminating beneath the liq. level in the chamber. It dis flow of mixed liquor within the chamber.

Oxygen is supplied from a second conduit mounted conwithin the first. This produces a circular flow within the sew maintain particulate matter in suspension. A quiescent z provided in the last chamber of the series from where cla effluent is withdrawn. There is fluid communication between portions of successive chambers to define the upper liq. levels.

Biological sludge is eliminated by forced autodigestion

microorganisms in the latter chambers of the series.

00611 D/01 *US 42 D15 ALLC * Storage stable amorphous poly:aluminium sulphate(s) - r reconstituted to coagulant solns. for water treatment

ALLIED CHEMICAL CORP 09.08.79-US-065313

E33 (09.12.80) C02f-05/02 09.08.79 as 065313 (4pp478)

An amorphous poly-Al sulphate (I) is new OH)x((H2PO4)z(H2O)w (I) (where x is 0.75-1.5; y is 0.7-1.07; 2 is 0-0.2 2.0-4.2; x + 2y + z is 3). Pref. (I) have x is 1.1-1.3; y is 0.8-0.9; z 0.14; and w is 2.5-3.5(I) is stable to storage without stabilis additives; is readily transported, packed, and stored; and is reconstituted to solns. useful as high performance coagular water treatment, etc.

08023 Y/05 = US 42 D15 Vinylidene fluoride an tetrafluoroethylene copolymer membr prepd. from solns. contg. solvent and nonsolvent for resin SUMITOMO ELEC IND KK 17.06.76-JP-072063 (17.07.)

A88 J01 L03 (A14 A85 A96 J03) (09.12.80) *DE2632-185 C08j-4 22.06.78 as 918186 (+19.7.76-US-706366) (8pp937)

Porous material of fine porous size is prepared by (1) prepare resin soln. of vinylidene fluoride/tetrafluoroethylene copol; vinylidene fluoride homopolymer or their mixt., and at leas solvent and one non solvent for the resins. The partial v. pressure of the non solvent is lower than that of the solvent(s nonsolvent is miscible with solvent provided that more tha resin and/or more than one solvent is present; (2) the solven nonsolvent are evaporated from the soln, to form a network of resin and then bridging that network with subsequently pptd. re

The porous membrane has a fine pore size suitable for memb

filtration, ultrafiltration and dialysis.

D15 52664 B/29 = US 42 Silicic acid hetero-polycondensate prodn. - from silicic acid dl silane and water, useful as membranes and adsorbents FRAUNHOFER-GES FORD ANGE 28.12.77-DE-758415

(09.12.80) *DE2758-415 C08g-77/56

27.12.78 as 973560 (8pp937)

Silicic acid hetero polycondensate porous adsorbent is produc condensing (a) at least one hydrolysable silicic acid deriv. 4, wh is halogen, alkoxy and '2, R' is H or llower alkyl, (b) at least substd. silane nR''(4-n), where R'' alkyl, alkenyl, aryl or aralkyl n is 1 to 3, (c) opt. at least one functional silane n(R'''Y)(4-n), where R'' is ylene, phenylene, alkylphenylene or alkylenephenylene halogen, amine, anilino, aldehyde, keto, carboxy, mercapto, cyano, hydroxyphenyl, diazo, carboxylic acid alkyl sulphonic acid or phosphoric acid gp, n is 1 to 10, and/or (d) o least one involatile oxide soluble in the reaction medium and s of GpIa to Va, IVb and Vb forming an involatile oxide wit stoichiometric amt. of water required for hydrolysis, in the preof a condensation catalyst in an organic solvent in a single condensation until the reaction is complete.

The silicic acid heteropolycondensate comprises 50-90 wt.% (a 50 wt.% (b), 0-15 wt.% (c), 0.40 wt.% (d). The solvent is remove dried to give a porous adsorbent of 15-35% porosity and a

surface area of 40 to 1200 metre square/g.

Absorbed substances can be easily desorbed from the adso inexpensively using water, hot water, steam or dil. acids.

See Also

D16 CS7901723

D16: FERMENTATION INDUSTRY

D16 D/01 + CS 7901-723 YE/ * ks filtration ability evaluation MAYER J 15.03.79-CS-001723 D15) (15.09.80) C12r-01/16 D16 D/01 + CS 7905-289 LI/ * illus licheniformis CCM 3403 microorganism strain BELIKE 31.07.79-CS-005289 (15.09.80) C12p-21/04 D/01 *CS 7905-504 D16 L/ * racellular prodn. of endo-1,4-beta-xylanase - by Cryptococcus BIELY P 13.08.79-CS-005504 (15.09.80) C12n-09/42 B04 D16 D/01 + CS 7905-980 TE/ * nicillium chrysogenum CCM F-648 strain MATELOVA V 03.09.79-CS-005980 B04 (15.09.80) C12p-37 D/01 + CS 7906-131 D16 phovite microorganisms cultivation unit - with mixing and ration arrangement BAUERS 10.09.79-CS-006131 (15.09.80) C12m-01/02 D/01 + CS 7906-192 D16 LE/ * evibacterium sp AO 6/79 strain PALECKOVAF 13.09.79-CS-006192 (15.09.80) C12p-13/08 C12r-01/13 D/01 + CS 7906-243 MC/ * rge vol. rectification appts. TAMCHYNA J 17.09.79-CS-006243 J01 (15.09.80) C12f-01/04 D/01 +CS 7906-286 IJE/★ D16 syme synthesis of radioactive adenosine - labelled with specific or specific kC or 3H radioactive isotope NEJEDLY Z 18.09.79-CS-006286 (15.09.80) C12p-19/40 B02 K08 S03 D/01 + CS 7906-407 CA/ * distributor for mass exchangers and fermentation appts. PACA J 22.09.79-CS-006407 (15.09.80) C12m-01/04 D/01 + CS 7906-458 D16 eary washing head BARTON M 25.09.79-CS-006458 (15.09.80) C121-11 D/01 *CS 7907-183 DP/ * ustrial strain of Aspergillus niger van Tieghem CCM-F-663 LEOPOLD J 24.10.79-CS-007183 115.09.80) C12n-01/14 D/01 + CS 7907-203 DP/ * **D16** asses substrate for citric fermentation LEOPOLD J 24.10.79-CS-007203 115.09.80) C12p-07/48 D/01 *CS 7907-255 D16 CE/ * coso-oxidase sepn. IUCERAJ 25.10.79-CS-007255 15.09.80) C12n-09/04 D/01 + CS 7907-319 roteins prepn. - by sequestering fermentation of nutrient media UZMOVAE 29.10.79-CS-007319 (5.09.80) C12n-01/22

D16

(15.09.80) C12p-37

ITTRT F 29.12.79-CS-009557

(5.09.80) C12m-01

nination of toxic effect of iron in penicillin biosynthesis IATELOVA V 21.12.79-CS-009206

tinuous cultivation of autotrophic microorganisms

GBFO-★ D16 00129 D/01 *DE 2924-006 Cultures of Myxococcus fulvus and its extracts - with antibacterial activity against Gram positive species GBF GES BIOTECH FOR 13.06.79-DE-924006

(18.12.80) A61k-35/74 C07c-103/52 C07g-11 C12n-01/20 C12p-01/04

13.06.79 as 924006 (20pp1251)

The culture broth obtd. by submerged, aerobic cultivation of Myxococcus fulvus DSM 1525 on an aq. medium contg. C and N sources and mineral salts at 15-40, pref. 25-35, deg.C is new. Also new are prods. obtd. by extracting (a) the harvested cells with a mixt. of water and polar organic solvent (I), or (b) the sepd. culture liq. with a polar organic solvent (II) having limited miscibility with water. Mixtures of active ingredients obtd. from the extracts by treatment with anion exchanger, chromatography on alumina, then freezedrying are also claimed. These mixts, can be resolved into 3 individual components all with mol. wt. 1100 or less and all contg. a peptide fragment with Arg: Ala; Val ratio 1:2:3.

The active ingredients are antibacterials effective against Gram positive species, e.g. the mixt. has min. inhibiting concn. (microg per ml) of Bacillus subtilis and Staph. aureus 1, E.coli K12 and Pseudomonas fluorescens 30, Schizosaccharomyces pombe about

KURT/ * D16 00153 D/01 ★DE 2924-175 Beer brewing from hops, malt and water - using hop extract admixed with extracted hop mineral pref. recovered from ashed hop extn. residue

KURTZO 15.06.79-DE-924175

(18.12.80) C12c-09/02 15.06.79 as 924175 (16pp200)

Hop minerals, removed from hop extract by extn., are returned, at

least partly, in beer brewing from hops, added at least partly as hop extracts, malt and water only, according to the German purity regulation.

The minerals are added, partly or entirely, as mineral materials recovered from worked-up, pref. ashed hop extn. residues. The minerals are added to the hop extracts, at least partly as ashed hops and opt. partly as dried hops, or as a mixt. of hops and ash. The minerals can also be added as dried and ashed hop plant parts.

The beer prod. obtd. is comparable to that obtd. by brewing with natural hops.

00180 D/01 ★DE 2924-344 Spore-less Basidiomycetes strains prepn. - by pairing a spore-less strain with a wild strain, and pairing the next two generations

SEP SOMYCEL SA 15.06.79-DE-924344 (18.12.80) A01h-15 P13

15.06.79 as 924344 (13pp1401)

Sporeless strains of Basidiomycetes can be prepd. by (a) pairing a strain with a mutation for sporelessness (sp-) with a wild strain; (b) allowing the di- or hetero-karyon obtd. to fruit and collecting the spores; (c) allowing the obtd. spores to germinate individually; (d) pairing the homokaryons obtd. in (c) with test homokaryons for sporelessness and bringing the di- or heterokaryons produced to fruiting; (e) examining the fruiting bodies for sporelessness and determining which homokaryons used in (d) for pairing contained the sp- mutation; and (f) pairing to homokaryons contg. sp- to give new di- or heterokaryons, which are then brought to fruiting and the fruiting bodies finally tested for sporelessness.

The most important edible fungi are Basidiomycetes, but the wild strains produce large amounts of sexual spores which can serve as vehicles for viruses, can cause allergies in humans and animals and, in the case of the species which destroy wood, can damage the environment.

00290 D/01 ★DE 3022-063 D16 TANA * Conc. ethanol prepn. by sugar fermentation - by contacting gelimmobilised Saccharomyces or Zymomonas microorganism with fermentable sugar contg. culture liquor
TANABE SEIYAKU CO L 28.09.79-JP-125966 (13.06.79-JP-

074972)

D/01 + CS 7909-206

D/01 + CS 7909-557

(18.12.80) C12p-07/06 A97 E17

12.06.80 as 022063 (30pp200) EtOH prepn. by sugar fermentation to EtOH takes place by contacting an EtOH-forming Saccharomyces or Zymomonas species yeast or anaerobic microorganism, immobilised on a carrier gel, with a fermentable sugar-contg. culture liquor. Pref. carrier gels are sulphated polysaccharide, polyacrylamide, Na alginate, PVA, cellulose succinate and casein succinate.

EtOH is prepd. quickly in high concns., e.g. 100-200 mg./ml.

41511 F/00 = DS 1929-355

Antibiotic thiopeptin antibacterial

FUJISAWA PHARM KK 12.06.68-JP-040386 B04 (18.12.80) *DE1929-355 A23k-01/17 + C07g-11

10.06.69 as 929355 (17pp279) New antiblotic thiopeptin A1 (1) has elemental analysis: C 49 38%; H 4.93%; N 14.22%; S 11.72%; a mole wt. of 1637; empirical formula:C 67-68, H 81-82, N 16-17, O 20-21, S 5 6, a m.pt. of 223-226 degs. C; optical activity (alpha 23/d) of -71 degs. (c is 1 in chloroform) an Rf-value of 0.78 in chloroform/methanol is 10:1; a characteristic UV- and IRspectrum; soluble in dioxan, DMSO, DMF, pyridine, chloroform and 3-N HCl; slightly soluble in methanol, acetone and ethylacetate and insol. in ether, benzene, n-hexane, petrolether and water; aminoacid compn. after hydrolysis with 6N hydrochloric acid at 110 degs. for 24 hours of 0.93 mole threonine, 1.01 mole valine and 0.91 mole cysteine, calc. to 2 mole alanine. Also claimed are new antibiotics thropeptin A3 (II) and thiopeptin B A thiopeptin antibiotic complex (IV) obtd. by culturing Strep. tateyamensis ATCC 21389 in usual medium, followed by extn. of the mycelium cake with acetone, and the mycelium cake obtained in this process are also claimed.

(I) - (IV) have antibiotic activity against many micro-organisms and may be used in feedstuff additives, to promote growth in

animals without side-effects.

21382 W/13 = DS 2444-947 ASAH D16 21382 W/13 = DS 2444-947
Filter for absorbing polyphenols from wines, beers - contains polyamide and cellulose fibres, (hydr oxide of titanium, zirconium, aluminium or silicon

ASAHI KASEI KOGYO K 05.04.74-JP-037812 (17.09.73-JP-103741)

A88 E37 J01 (A97 D13) (18.12.80) *DE2444-947 B01d-39/16

17.09.74 as 444947 (12pp260) Asbestos free filter materials consist of (a) pref. 5-90 pts. wt. polyamide fibres of mean dia. 0.05-10 micron and mean length 0.5-100 mm; (b) pref. 10-95 pts.wt., powdered Al, Ti,Zr and/or Si-oxide, hydrate and/or -hydroxide of particle size 0.1-100 micron as inorganic absorbing material; and (c) pref. 10-150 pts.wt. per 100 pts.wt. (a) + (b), cellulose fibres of mean dia. 5-50 micron and mean length 1-100 mm. The powders are fixed within a thin fleece sheet or cloth made from the fibres.

The filler material pref. also contains an N-substd. polyamide contg. in the main chain gps. N(-CH2OR)-C(:O)-, where R is 1-4C alkyl. The main chain of the polyamide pref. consist of nylon-4, -6 or -66. The absorbing material is pref. gamma-Al2O3, bohmite, Zr(OH)4,

ZrO(OH)2 and/or Ti(OH)4.

Turbidity causing polyphenols can be removed from vegetable based beverages more effectively than previously without loss of nutrients.

64839 B/36 = DS 2808-022D16 FRNG Ultrafiltration circuit with recirculation - having two ultrafilter modules mounted in vertical leg with liq. head of 0.5 to 1.5 times pressure drop in module

FRINGS H CO GMBH KG 24.02.78-DE-808022 J01 (18.12.80) *DE2808-022 B01d-13 B01d-31

24.02.78 as 808022 (4pp1045)

The circuit for the ultrafiltration of a fluid contg. micro-organisms or insoluble material in amts. which are not large, such as vinegar, fruit juices, wine, under a hydrostatic pressure of 200-500 mbar, has at least two, vertically aligned, filter modules, in series, through which the flow is from top to bottom.

The vertical space between these corresponds to 0:5 to 1:5 times the pressure loss of a filter module, and these are connected by a line with a low loss in pressure. The installation has also a container whch is filled automatically with the fluid to be filtered, to a level, 1-4m above the outlet of the bottom module, a circulating pump and filtrate receiver.

The plant prevents environmental pollution since it has a great efficiency and requires very little maintenance.

TIYST- * 00326 D/01 + GB 1581-832 Cultivation of filamentous fungi - on discs rotating cyclically through nutrient and oxygen

UNIV OF STRATHCLYDE 17.06.76-GB-025050 (31.12.80) C12m-01/14 C12n-01/14 C12r-01/68

28.03.77 as ---- (5pp295)

A filamentous fungi is cultivated by partially filling a rotating disc cultivator with a liquid nutrient medium. Sterile air is introduced into the space above the nutrient. Spores of the fungi are inoculated into the nutrient. They adhere to the discs which are rotated so that the spores are cyclically subjected to the nutrient and sterile air.

The spores grow to form a layer of fungi adhering to the discs. At least one disc is segmented with the segments manually removable to permit monitoring of the fungal growth. The nutrient may subsequently be replaced with a substrate deficient in growthpromoting constituents and contg. material convertible by the fungi to a desired product.

The fungi may be of the Mucor, Lasiodiplodia, Rhizopus or Aspergillus genera. Citric acid may be produced using the fungus

antibiotics or enzymes.

09345 A/05 #GB 1583 Bifidus powder contg. lactulose - used in prevention or treatme D16 intestinal disorders

MORINAGA MILK KK 10.06.76-JP 067067 (05.12.77-GB-05060

(31.12.80) *J52151-787 A61k-35/74 A61k-47

05.12.77 as 050607 (11pp931)

A powdery compsn. comprises 28-57 wt% of lactulose, less than wt% of moisture and at least 8 x 10 power 10 freeze-dried viable of the genus Bifidobacterium per g of compsn

Pref the compsn comprises 40-70 wt% of a powdered mixt. of cells and a suspending agent for them, comprising at least 2 power 11 cells per g of mixt., and 60-30 wt% of powdered mixt co at least 55 wt% of lactulose, and lactose and galactose to balance

The compsn provides a high density of cells of high survival during prolonged storage, which may establish themselves in intestinal tract when orally administered.

D/01 *IT 1047 D16 ALLI- *

Contraceptive vaccine prepn.

ALL INDIA INST MED 20.06.75-IT-050159

(20.10.80) A61k

24737 U/18 = J8 0047 SUMO D16 Pesticide compsns - contg bacillus spp and pyrethroids

SUMITOMO CHEMICAL KK 14.10.71-JP-081183 (27.11.80) *NL7213-916 + A01n-53 A01n-63 C02 + Q62

14.10.71 as 081183 (6pp)

Synergistic pesticidal compsns. contain (a) dried cells or to prepns. of Bacillus thuringiensis, B. meritai and/or B. popill with (b) at least onepyrethroid insecticide e.g. allethrin, dimeth or tetramethrin, in ratio (b):(a) 1:999 to 9:1. (J48044415).

00418 D/01 *J8 0047 D16 Preventing infectious atrophic rhinitis of young pig - by inocula pregnant mother with cell body of Bordetella bronchiseptica vacc NISSHIN FLOUR MILL KK(ZENK-) 19.09.72-JP-093186

(27.11.80) A61k-39/10 B04 C03

19.09.72 as 093186 (5pp22) Cell body of microorganism Bordetella bronchiseptica vaccin inoculated into pregnant pig, whereby the immunity is transfer to the young pig and thus infectious atrophic rhinitis is preven (J49047163).

PITT-D16 46944 T/29 = J80047Immunizing vaccine prepn - for kennel cough

PITTMANN MOORE CORP (PIT) 02.12.70-US-094570

(27.11.80) *J47011-597 + A61k-39/15B04 C03

02.12.71 as 097528 (5pp)

Vaccine comprises an effective amt. of live, non-pathogenic ca parainfluenza virus and live, non-pathogenic, canine adenov Type 2, in a physiologically acceptable carrier. In preparing vaccine, the virulent CPI virus and canine adenovirus Type 2 each propagated in animal tissue cultures until both viruses rendered non-pathogenic. The CPI virus is capable of propagation a wide variety of tissue culture systems, such as chick emb porcine testes, embryonic bovine kidney, canine kidney and mor kidney, etc. and also in established cell lines, such as, Madin Da bovine kidney (MDBK), Madin Darby canine kidney (MDCK), etc

For the propagation of the canine adenovirus Type 2, kidney ti cultures are partic. those derived from bovine and dog. Attenua of each virus is accomplished by standard serial passage or term dilution passage techniques where a sufficient number of pass: are employed until the virus is rendered non-pathogenic ar vaccine prepd. therefrom will stimulate an immuneresponse

AGEN D16 $88389 \text{ B}/49 = J8\ 004\text{ B}$ Immobilised enzyme fibre prodn. - using polyvinyl alcohol filanmodified by treatment with aldehyde contg. (substd.) amino g corresp. acetal

AGENCY OF IND SCI TECH 01.12.77-JP-144109

A96 B04 F01 (A14) (28.11.80) *J54138-624 D01f-06 14 D01f-11

01.12.77 as 144109 (8pp173)

Immobilised enzyme fibre is produced by (1) spinning poly alcohol (PVA) to prepare PVA filaments, followed by treatin. filaments with aldehyde having amino (or substd. amino) gr corresp. acetal, to obtain polyvinyl aminoacetal filaments, ar immersing the resulting filaments in aq. soln. of enzyme to e chemical combination of the fibre with the enzyme

The immobilised enzyme fibre is applicable to industrial en: reaction. The polyvinyl aminoacetal fibre has sufficient mecha strength and improved enzyme-immobilising capacity. The cap can be further increased by pre-treatment of the fibre with 0

normal acid soln. (J54138624).

 $77244 \text{ A}/43 = J8\,0047-612$ accine prepn. for treating bordetella bronchiseptica infections ontacting mutation inducing agent with fungi liquor and ng on blood-agar

CHIKU EISEI SHIKE 28.02.77-JP-021139

(01.12.80) *J53107-411 A61k-39/10 + C12n-01/20 C12r-01/*

2 as 021139 (7pp69)

rocess comprises contacting mutation inducing agent to ed fungi liquor of Bordetella bronchiseptica at logarithmic gation period and then, repeating centrifugal sepn. operation, ng sepd. substance with phosphoric acid buffered NaCl ag. t pH 7.0, coating the substance on blood-agar culture medium ulturing by streake method and selecting temp-sensible ed strain that grow at 32 deg. C but may not grow at 34 deg. C or C by replica method at different temps.

detella brochiseptica-infection attacks various animals such s, dogs, rabbits or mice and causes respiratory organ diseases, it attacks infant pigs and causes atrophic rhinitis that causes ny of nasalconcha and gives hypoplasia and lowering of feed

ncy. (J53107411).

44949 A/25 = J80047-878namide adenine di:nucleotide redn. with alcohol dehydrase - in nce of ethanol and weakly basic ion exchange resin to absorb and acetaldehyde

RIENTAL YEAST KK 25.10.76-JP-127305 2 (02.12.80) *J53052-691 + B01j-47 C12p-19/36

76 as 127305 (2pp43)

of reduced type nicotinamide adenine.dinucleotide rises reducing nicotinamide adenine.dinucleotide with alcohol trase in the presence of ethanol. A soln. of pH 6-8 contg. ethanol, namide adenine.dinucleotide and alcohol dehydrase reacted contacting it with weakly basic ion exchange resin. The NADH cetaldehyde formed are absorbed from the reaction system, the redn. reaction of NAD with ADH proceeds in neutral tions, effectively utilising the ADH. Almost 100% conversion to H is obtd. (J5305269)

11897 B/07 = US 4237-693 D16 trial aerobic fermentation - for mfr. of unicellular protein, in us contactor operating at gauge pressure above 2 bars PERIAL CHEM INDS LTD 09.08.77-GB-033338

Q52(D13) (09.12.80) *BE-869-589 + F02c-01/04 F02c-07/02 78 as 931156 (6pp1376)

aerobic fermentation process oxygen contg. gas is compressed ressure of 2 bars and is fed to a fermentor from which an offs withdrawn at a pressure of at least 2 bars which is equently heated to prevent condensation and fed to a gas ider. The power from the expander is transmitted to the ressor

If, the off-gas is withdrawn at a pressure of 3 to 10 bars.

cess is energy efficient.

00599 D/01 *US 4238-327 D16 gel chromatography for sepg. molecules - uses time varying ric field through gel media to alter apparent molecular size

BURDY R P 25.06.79-US-052177

1 S03 X25 (09.12.80) B01d-15/08

79 as 052177 (9pp67)

ares of molecules having net dipole moments or distributed es within their molecular chains are sepd. using liq. gel matography while applying a time varying electric field with the gel media to alter the apparent molecular size. An initial field at radio frequency is created between two plates of a initial initial field at radio frequency is created between two plates of a initial field at radio frequency is created between two plates of a initial field at radio frequency is created between two plates of a initial field at radio frequency is created between two plates of a initial field at radio frequency is created between two plates of a initial field in the field at radio frequency is created between two plates. u is located between the plates.

d in sepg. cells or proteins in biological fluids. The varying intersets with the molecules through polarisation events that the molecular vibration and rotation motions. The induced ces cause the molecules to exhibit elution characteristics of trom those normally obtd. during liq. gel chromatography, itting molecules to be more selectively partitioned according to

distinct polarisation properties.

CHEM-D16 06114 Y/04 = US 4238-473Beta glycoside derivs. for coupling to carriers - to produce antigens and immunoadsorbents(NL110177) CHEMBIOMED LTD (CANA) 08.07.75-GB-028729

B04 S03 S05 (09.12.80) *DE2630-596 A61k-35/14 C07h-13/06

22.01.79 as 005579 (14pp393)

Lower oligosaccharide cpds. active as blood gp. determinants have aldoses O-alpha or O-beta-glycosidically linked to form di-, tri-, or tetra- saccharides, and have a bridging arm O-beta-glycosidically linked to one of the aldose moieties.

The bridging arm has the structure O-R-COR (where R is satd. 3-17C aliphatic hydrocarbon gp. and R is H, OH, NH2, NHNH2, N3 or lower alkoxy). The aldoses are selected from glucose, galactose, marinose, fucose, glucosamine and acetamido deoxyglucose. The aldoses and their sequence and linkage configurations are chosen to give active blood gp. determinants.

STOJ/ D16 47144 B/26 = US 4238-478Hetero-vaccine for treatment of trichomonas syndrome - contains inactivated strains of Lactobacillus acidophilus in physiological

STOJKOVIC L (SOLB) 23.12.77-CH-016012

B04 (09.12,80) *BE-872-884 A61k-39/02 03.04.79 as 026496 (+6.12.78-US-967033) (6pp945)

Heterovaccine for treatment of Trichomonas syndrome consists of inactivated microorganisms of strains of Lactobacterium acidophilum in soln. The microorganisms are deposited with Centraalbureau voor Schimmelcultures in Baarn (Netherlands) under references CBS 465.77, 466.77, 476.77, 468.77, 469.77, 470.77, 471.77 and 472.77. At least 3 strains are present and there are approx. equal numbers of each strain.

Pref. the vaccine contains all 8 strains and is then effective in virtually all female patients. It can be used curatively or prophylactically and is useful against acute, chromic and

asymptomatic trichomoniasis.

EGRE/ 16329 B/09 = US 4238-511D16 Winemaking maceration process of the carbonic type - separates pendicles from whole grapes by hydrodynamic shock wave from positive rotary pump

EGRETIER M 26.05.77-FR-017294

(09.12.80) *FR2392-115 C12g-01

22.05.78 as 908425 (5pp918)

Grapes are macerated and fermented in the presence of CO2 by detaching them from the stems so a fraction of must is liberated during destemming, the berries become surrounded by the must. The berries (with stems) are forced toward a fermentation vat by pumping them against a CO2 back-pressure so they are subjected to pulsating shock waves of back-pressure which de-stems the grapes.

Fermentation is uniform throughout the vat without the need for

acid introduction.

00707 D/01 *US 4238-568 D16 Roller bottle for cell culturing - with internal surface treated to encourage cell adhesion prior to bottle assembly

BECTON DICKINSON CO 10.10.78-US-949450

(09.12.80) C12m-01/24 10.10.78 as 949450 (4pp295)

A roller bottle comprises a cylinder, one end of which is inserted and sealed within a groove in a first cap. The second end of the cylinder is also inserted in a groove in a second cap. The interior surface of the cylinder is treated to encourage cell adhesion. Pref. serrations are provided along the circumference of the caps to enable the bottle to rotate on a roller appts. without slipping. Pref. one end cap includes a neck with an external screw thread to which a cap can be

The bottle is used for the culturing of cells. An evenly treated internal surface for cell adhesion is obtd. as the treatment does not

have to be applied through a small neck.

See Also

D13 CS7704923 D13 CS7906144 D12 US4238513 D13 US4238566 D13 US4238514 D13 J80047060 D17 GB2049698 D25 GB1582200 D13 US4238567 D25 US4238345

D17: SUGAR; STARCH

D/01 +CS 7808-245 | HYBL/ + D17

cose and D-fructose prepn.

JLHANEK M 12.12.78-CS-008245 (15.09.80) C13k-03

D/01 ★CS 8001-352 D17 Sugar mixing and dissolving appts. - for sugar continuous, vertical centrifuge

HYBLER J 28.02.80-CS-001352

(15.09.80) C13f-01/02

00288 D/01 *DE 3022-008 D17 Selective adsorption of components from an aq. soln. - using crystalline aluminosilicate adsorbent contg. water permeable polymeric binder (NL 17.12.80)

UOP INC 15.06.79-US-048955

(18.12.80) B01d-15/08 B01j-20/16 A97 J01

12.06.80 as 022008 (54pp513) In a process for sepg. one component from an aq. soln. contg. a number of components, the soln, is treated with an adsorbent comprising a crystalline aluminosilicate contg. a water-permeable organic polymer which exhibits selective adsorption w.r.t. the desired component. The adsorbed component is subsequently recovered.

The presence of the water-permeable polymer overcomes dissolution of the silicon component in the soln., with consequent collapse of the adsorbent. Typically, the adsorbent is a Zeolite X or Y and the water-permeable polymer is cellulose ester or cellulose nitrate.

The process is esp. useful for sepg. aq. saccharide solns., e.g. contg. fructose and glucose, and is suitable for use on a small or

large scale.

00377 D/01 *GB 2049-698 D17 CORP * Non-crystallising dextrose-maltose syrup prodn. - using bed of immobilised glucoamylase giving precise control
CPC INTERNATIONAL INC 23.05.79-GB-018022
(D16) (31.12.80) C13k-01/06

23.05.79 as 018022 (6pp955)

Non-crystallising syrups contg. dextrose and maltose are prepd. by passing a maltose contg. starch hydrolysate through a mass of

immobilised glucoamylase enzyme.

The extent of hydrolysis and the dextrose content of the prod. can be precisely controlled, and the reaction stopped at a chosen point. This avoids the need for blending of syrups which is necessary in batch processes.

74024 C/42 = US 4237-619D17 CORP Fluidising raw material e.g. starch in vertical container - having upper and lower fluidising chambers with stirrers, where fluid flows from lower to upper chamber

CPC INTERNATIONAL INC 15.12.78-US-970069 + Q76 (09.12.80) *J55081-739 + F26b-17

15.12.78 as 970069 (7pp1376)

Fluidised bed appts. consists of an upstanding housing de upper and lower fluidising chambers which include agitator are connected by tubes, and a discharge which include upstanding leg to which fluidisable material from one chambers and fluidising fluid is supplied from the upper cham

Fluidised material is discharged from the leg. Fluid is supp the lower chamber and passes through the tubes to the chamber. Material is supplied to the upper chamber. Pre agitators are rotatable blades.

Use of rotary airlocks in discharge tubes is prevented.

00563 D/01 *US 42 Sepn. of components in aq. mixtures - by selective adsorpticrystalline aluminosilicate(s) pretreated with aluminium cations. prevent silicon dissolution

UOP INC 29.05.79-US-043526

(09.12.80) C13d-03/12 C13k-03 C13k-11

29.05.79 as 043526 (11pp478) The sepn. of a specific component (I) from a mixt. in an aq stream by treatment with a crystalline aluminosilicate adso (II) so that the required (I) is selectively adsorbed and may th recovered, is improved by impregnating (II) prior to the treatment with Al(III) cations.

(II) includes a conventional binder (amorphous SiO2-Al2C Al2O3), and is pref. a known X or Y zeolite contg. alkali(ne metals at exchangeable cationic sites. Impregnation of (II) is with an aq. Al halide soln. to give (II) contg. 0.01-0.5% pref. 0.05-

wt. Al cations.

In the treatment, Al reacts with (II) and substantially reduce dissolution of the Si constituent of (II) which occurs on contact aq. streams, and which is known to result in the disintegration adsorbent. (II) are used in aq. media e.g. for the sepn. of fru from a mixt. with other sugars (esp. glucose).

See Also

D13 US4238344

D18: SKINS; HIDES; LEATHER; TOBACCO

D/01 + CS 7906-681

DAGN/★ D18 D/01 ★BR 7903-917 Lower supporting cylinder raising mechanism control - for leather glazing and polishing machine

DAGNESER 08.06.79-BR-003917

(09.12.80) C14b-01/50

D/01 + CS 7805-475 ORLI/ * D18 Pelt treatment of pigskin prodn.

ORLITA A 22.08.78-CS-005475 (15.09.80) C14c-01/06

CURI/ * D18

Leather waste processing method CURIK A 03.10.79-CS-006681 (15.09.80) C14b-05

D18 GROS/ * D/01 ★CS 7907-134 Shaving stand laying rollers drive GROSSMANN J 22.10.79-CS-007134 (15.09.80) C14b-17/10

D18 D/01 + CS 7908-569 ONDE/ *

Flat articles drying installation ONDERKAZ 10.12.79-CS-008569 (15.09.80) C14b-01/58

D18 BALC/ * D/01 + CS 7908-572 Simulation of leather equipment conveyor delay

BALCAREK J 10.12.79-CS-008572 (15.09.80) C14b-17/10

 $54165 \text{ U}/37 = J8\,0047-080$ Leather nourishing compsn - contg spray dried albumin, mineral or organic salts and polysaccharides

CHEM FAB STOCKHAU 29.03.72-DE-215212 (27.11.80) *BE-797-545 C14c-09/02 + C11d-01/32

29.03.73 as 036136 (6pp-)

Leather and hide are treated with solns. or dispersions of s dried water soluble or emulsifiable oils and fats or waxes contg 35%(0.5-30%) pref. 12.25% of mineral or organic salts, 0.1-90% 50%) pref. 20-25% albumin and derivs. 0.1-70%(2-50%)pref. 10 mono, oligo, polysaccarides or derivs. Mineral salts are chlor sulphates etc of alkali or alkaline-earth metals. Organic salts alkali or alkaline-earth metal derivs. of mono or polycarbo acids.

The spray dried compsns. are free flowing powders in spite of 70% fats content.Aq. solns. or dispersions are stable at pl (J49006101).

HAUN D18 71893 B/40 = US 423Compact filter rod for cigarettes - having series of drums and kil to assemble two or more components onto binder paper to continuous rod from which elements are cut

HAUNI-WERKE KORBER KG 15.03.78-DE-811176

J01 P15 (09.12.80) *DE2811-176 A24c-05/50 01.03.79 as 016528 (6pp1358)

A machine for making a continuous cigarette filter rod which ca cut into recessed composite filters assembles dissimilar filter i into coaxial groups, moves the groups sideways onto a mo adhesive-coated wrap web, with a holder placing a phantom after each group and withdrawing it as soon as the following g has adhered to the web, to leave a gap. Plugs are delivered respective magazines with cutters and there is a number of ho each with a flute for a group of plugs and a phantom plug at one The web is wrapped around the adhered groups and is cut cent across a gap.

D2: DISINFECTANTS; DETERGENTS

D21: DENTAL: TOILET PREPARATIONS

00074 D/01 *DE 2923-615 ring flavouring and aromatiser activity in paste - e.g. tooth by chemical or mechanical means ENFTLE H 11.06.79-DE-923615

3.12.80) A61k-07/16 C09k-03 C11b-03 C11b-09

79 as 923615 (5pp200)

ical or physical means, e.g. a slowly-dissolving gelatin binder, dded to a paste, e.g. tooth paste, massage cream, soap or other ser, to retard flavouring and/or aromatiser activity in use. youring delay acts as an incentive to thorough cleansing, e.g.

brushing.

00116 D/01 ★DE 2923-862 ant for anchoring magnetic holder in jaw bone - where holder is cted against corrosion, and retains dental prosthesis in human

TEMMANN ZAHNTECH 13.06.79-DE-923862

02 P32 (18.12.80) A61c-08 79 as 923862 (13pp1144)

le is drilled in the jawbone and used to locate a magnet or et assembly provided with ametal sheath for protection ast corrosion. On the sheath is a hard ceramic mass, and than a as absorbent ceramic which completely surrounds the magnet ills the drilled hole. Mass is pref. an alumina ceramic; whereas rial is pref. a calcium phosphate ceramic. The magnet nbly pref. consists of a yoke contg. permanent magnets made insition metals and lanthanides.

bone grows into the implantate and corrosion of the magnet is

ented.

79851 T/50 = DS 2226-401spaste - contg visible agglomerates of abrasive particles on a applastic visible binder

DLGATE PALMOLIVE CO 03.06.71-US-149786 16 (18.12.80) *BE-784-352 A61k-07/16

72 as 226401 (9pp260)

merated materials contain (a) a water insoluble binder and (b) ive particles with a Mohs hardness of 2-10, a mean dia. of 0.1-10 ns in wt. ratios of 10-90 pts. (a) to 90-10 pts. (b). The water ble binder is pref. low molecular polyethylene. The merated particles are pref. produced by dry mixing of (a) and eating the mixt. while barreling to the softening pt. of the r, cooling the mixt. and grading it.

shing and abrading masses for tooth pastes are obtd. which ore stable while being worked in and during storage. The tooth

can contain all other usual additives.

58958 A/33 = DS 2704-850 D21 iving basic aluminium chloride cpds. in absolute ethanol ut residue to form cosmetics, esp. antiperspirants, in nsion sprays

ECHST AG 05.02.77-DE-704850 3 (18.12.80) *DE2704-850 C01f-07/56

77 as 704850 (4pp068)

of a soln. of basic aluminium chloride (BAC) of formula H)nClz (where z is 1.18-0.91 and n+z is 6) in absolute ethanol rises stirring a suspension of the BAC and ethanol having a wt. BAC to ethanol of 1:3 to 1:9 at 20-30 deg.C until at least 97 wt.% BAC is in soln.

soln. has almost no residue and is suitable for use as an

rspirant spray.

18009 A/10 = GB 1582-028of fat-soluble perfume oils or pharmaceuticals - contg. llated hydroxyalkyl ester or amide as solubiliser (BE 28.2.78) NKELKG AUF AKTIEN 01.09.76-DE-639293

B05 E19 (A25) (31.12.80) *DE2639-293 A61k-07/46 A61k-09/08

7 as 035628 (6pp974)

plear stable aq. or aq. - alcoholic solns. of fat-soluble perfume drugs contain hydroxyalkylester-and/or N-(hydroxy alkyl) oxethylates of formula R(3)CO-X-CHR(2)-CHR(1)oxethylates

40)nH (I). (I) act as dissolving intermediaries. nd R2 are H or 1-18C alkyl and total 6-20C. R3 is 1-12C alkyl or

I is O or N(C2H40)mH. n and m are each 0-40 and total 6-40. R3 is 1-5C alkyl. Pref (I) are derived from end position 16-18C Ilkanes. Pref. R3 is CH3. Pref. n + m is 10-30.

HANO-D21 02159 B/02 = GB 1582-179Cosmetic complex for face or hair treatment - has emulsifying value equal to that of sebaceous matter film

HANORAH ITALIANA SP 16.06.77-IT-024731

(31.12.80) *DE2747-532 A61k-07/48

03.11.77 as 045709 (4pp931)

A sebum-like cosmetic compsn. is claimed which has a required value of emulsification (HLBr) of 10.4-10.7 when applied to the face, or 12.4-12.8 when applied to the hair. A sebotropic cosmetic compsn. is also claimed which has similar values of emulsification (HLB) when emulsifying sebaceous face film or sebaceous hair film.

Pref. a metering appts. is used, from which the distribution coefft. is obtd. and the required value of sebum be calculated using minimal

amts. of material.

Cosmetics may be obtd. which provide a cleansing action on the skin such that dirt is removed by emulsification, rather than by dispersion or abstergency. The integrity of the sebaceous film impregnating the horny layer of the skin is maintained by the

D21 D/01 *IT 1047-922 Topical compsn. eliminating skin blemishes - and ensuring cellular regeneration

TENTATL 13.07.73-IT-051435

B05 (20.10.80) A61k

D21 $76564 \text{ W}/46 = J8\,0047-025$ Emulsifying synthetic oils prepn. - by esterification of lactic acid

with satd. branched alcohols
NISSHIN OIL MILLS KK 00.00.74-JP-029917 (08.01.74-JP-005095)
B07 E17 (27.11.80) *J50100-016 + A61k-07 C07c-67 C07c-69/68

08.01.74 as 029917 (2pp)

Synthetic oils were prepd. by esterification of lactic acid with at least C16 satd. branched alcohols. The products were useful as

In an example a mixt. of 6.3 moles 90% ags. lactic acid, 6.0 moles 5,7,7-trimethyl-2-(1,3,3-trimethylbutyl)-octanol eC6H4SO3Hs stirred 3 hr. at 120-30 deg.C with removal of formed water to give 90% 5,7,7-trimethyl-2-(1,3,3-trimethylbutyl)-octyl lactate (acid value 0.10, OH value 155, sapon. vaue 172, viscosity 100 centipoise at 25 deg.C) 2-octyldodecyl lacetate also was prepd. (J50100016).

26138 A/14 = J8 0047-607 D21 SHIS Make/up cosmetic prepn. - obtd. by mixing pigment obtd. by dispersing organic modified montmorillonite clay in alkali soln. and adding acid soln., with cosmetic base SHISEIDO KK 29.07.76-JP-090591

(01.12.80) *J53018-740 A61k-07/02

29.07.76 as 090591 (5pp38)

Make-up cosmetics are prepd. by combining powdered processed pigment, obtd. by dispersing organic modified montmorillonite clay in aq. alkaline soln. of carthamin and adding aq. acid soln. to the dispersion for adsorbing carthamin on montmorillonite and colour-

developing carthamin, with cosmetic bases.

The modified montmorillonite clay is pref. dimethylbenzyldodecyl-ammonium montmorillonite clay or dimethyl-dodecyl-ammonium montmorillonite clay. Carthamin content in the pigment is 1-20 (5-10)%. Aq. acid soln. is aq. citric acid soln. and aq. alkaline

soln. is aq. Na2CO3 soln. contg. carthamin.

Carthamin is made the body pigment and it can be combined in solid, liquid, cream and powder make-up cosmetics. The obtd. make-up cosmetics have vivid colour and are stable. The colour of the make-up cosmetics is hardly bled in oil and water. (J53018740).

00503 D/01 ± US 4237-910 D21 Stable, alkaline, no-base hair relaxer compsns. - contg. alkali, oleaginous material, emulsifier, and modified hectorite clay gellant
JOHNSON PRODUCTS CO 24.09.79-US-078593 (30.04.79-US-

034933) (09.12.80) A45d-07/04 A61k-07/09 A96 P24

24.09.79 as 078593 (9pp478)

Compsns. consisting of a continuous H2O phase contg. dissolved H2O-soluble alkali (to pH 12-14), and a dispersion of (by wt.) 3-50% oleaginous material (I), e.g. petrolatum, and 7-25% emulsifier (II) are improved by incorporation of (as stabiliser) 2-30% of a lipophilic, organically modified hectorite clay gellant (III).

(III) consists of (a) hectorite modified with a quaternised N-contg. cpd. with at least one 8-20C long chain substit. on the N-atom e.g.

Week D01

stearalkonium chloride; (b) propylene glycol; and (c) a non-polar organic liq e g castor oil The total (I), (II), and (III) is not greater than 65% by wt. of the compsn. The aq alkaline compsns. contg. (III) are stable to ageing, and do not de-emulsify or separate.

63306 Y/36 = US 4237-911 Dental prod. for oral hygiene - consisting of cellular pref. foamed thermoplastic shaft enclosing dental care agents

WHITE M J E 18.02.76-AU-004899 A96 P32 + P24 (09.12.80) *DE2706-199 A61c-15 01 05 79 as 035071 (+17.2.77-US-769655) (6pp964)

Dental prod. for maintaining oral hygiene comprises (a) elongated, chewable stem of resilient thermoplastic cellular material for cleaning tooth surfaces and having a density of 0.005-0.5 g./cc.; (b) elongated fin of thermoplastic material formed integrally with the stem, and arranged to be inserted between contact points between adjacent pairs of teeth and drawn lengthwise between the teeth; (c) dental fluoride disposed within the cells of (a) in amt. of 1 mg. of fluoride ions per vol. of cellular material of 2-12 cc., and (d) an outer skin extending around the stem and fin, which is broken after the cleaning operation of the fin.

Dental fluoride may be released in optimum amts. for dieting intake and topical application to tooth surfaces.

71735 B/40 = US 4238-476D21COLG Transparent gel dentifrice of specified compsn. - contg. pure lauryl sulphate, not clouding on ageing COLGATE PALMOLIVE CO

19.05.78-GB-020758

A96 E19 (A25) (09.12.80) *BE-876-314 A61k-07/18

10.05.79 as 037597 (6pp945) Clear dentifrice comprises a vehicle contg. (A) 5-50% polishing agent, (B) liq. phase with refractive index matching that of (A) to give clarity and including humectant, (C) solid phase including gelling and/or thickening agent, (D) alkali metal fluoride or monofluorophosphate providing 0.01-1% F and (E) 0.1-5% surfactant

system. (A) has empirical silicon dioxide content at leas particle size 1-35 micron, amorphous X-ray structure and refi index 1.44-1.47 (E) comprises narrow cut alkali metal lauryl su (I) whose C12 content is at least 90% and an anionic surfacti chosen from (a) alkali metal salts of satd. higher aliphati amide of a lower aliphatic amino carboxylic acid cpd., (b) metal salts of satd. higher fatty aliphatic alcohol alkylene sulphate, (c) anionic phosphate ester mixts. of mon R((OC2H4)nP(O)(OM)2 and diester R(OC2H4)nC(OM)O(C2H40)nR (where R is 10-20C alkyl; n is 1-6; and M is H, metal or ammonium) and (d) their mixts. Ratio of (I):(II) is a 3:1 (20:1). The dentifrice has reduced haziness or cloudiness.

00680 D/01 *US 42 ALBE * Cosmetic creme contg. fine oat flour - to reduce greasiness w loss of spreadability
ALBERTO CULVER CO 05.02.79-US-009341 (19.12.77-US-86

(09.12.80) A61k-07

05.02.79 as 009341 (4pp955)

A cosmetic creme comprises at least one cosmetic oil, a ammonium smectite gellant, and 40-60 wt.% oat flour of particl such that at least 98% passes a US 200 mesh screen.

Suitable oils include hydrocarbons, isopropyl myristate, sil oils, triglycerides etc. Commercially available preformed mix the oil and the gellant may be used. Suitable oat flour is availab "Oat-Pro" or "Ster-O-Pro" (RTM, Quaker Oats Co.)
The greasy character of the creme is eliminated wi

impairing the spreadability.

See Also

D13 GB1582042 D13 US4238344

D22: BANDAGES; DRESSINGS

D/01 + CS 7901-301

SOKO/ ★ D22 Skin disinfectant

SOKOLD 26.02.79-CS-001301 P34 (15.09.80) A611-13

00061 D/01 ★DE 2923-430 D22 Insoluble swellable crosslinked etherified polyvinyl deriv. prodn. useful as water and moisture absorbent and retainer

HOECHST AG 09.06.79-DE-923430 A14 F01 (18.12.80) C08f-08 09.06.79 as 923430 (20pp016)

Prodn. of swellable, crosslinked and etherified polyvinyl derivs. (I), which are over 40wt.% insol. in water, involves etherification of polyvinyl acetate (PVAc) with previous, simultaneous or subsequent crosslinking with crosslinking agent (II) at least bifunctional towards OH gps. in aq.-alkaline medium, opt. contg. an organic solvent (III). It is pref. to use 1.0-3.5(1.5-2.5) mole alkali hydroxide, 0.5-5.0(1.0-3.0) mole water, 0.01-0.5(0.05-0.3) mole (II) and 0.1-1.5(0.5-1.2) mole etherifying agent (IV) per mole PVAc and opt. 4-40(6-30) wt.pts.(III) per wt.pt. PVAc.

(I) are specified for use as water and moisture absorbents and retainers. They are useful for baby care, tampons, medical and hospital applications, artificial leather for footwear, bags, upholstery, outer clothing and household applications or for covers (tent material, tarpaulins), for which they have the required liquid

absorption and swelling capacity.

BADI * D22 00151 D/01 *DE 2924-150 6-Fluoro-2-pyridyl-thio- and di:thio-phosphate derivs. - prepd. by reacting a 6-fluoro-2-pyridinol salt with a (di)-thio:phosphoryl chloride, useful as insecticides and nematocides

BASF AG 15.06.79-DE-924150

B03 C01 E11 (18.12.80) A01n-57/16 C07f-09/58

15.06.79 as 924150 (24pp280)

New 6-fluoro-pyridyl phosphoric acid derivs. are cpds. of formula (I) -P(X)(R2)(OR1) (I)here R is 6-fluoro-2-pyridyl; X is O or S; R1 is 1-3C alkyl; and R2 is 1-6C alkylthio or mono- or di(1-3C alkyl)amino). (I) are pesticides with insecticidal and nematocidal activity. They can be used in plant protection, as well as in the hygiene, stored products protection and veterinary sectors.

00215 D/01 *DE 301 AMSA * **D22** Sterilising apparatus control - superimposing selected sp parameters to some stages of stored basic cycle (PT 30.10.80)

AMERICAN STERILISER CO 05.06.79-US-045832

 $S05 \ T06 + P34$ (18.12.80) A611-02/24 G05b

16.04.80 as 014549 (27pp39)

A sterilising apparatus for use with steam or biocide g: controlled by an electronic unit which is set for a basic cycle fr program stored in a memory. The value, desired by the use selectively set for a certain parameter in at least one operat stage of the basic cycle and is also stored in an external memo that it can be retrieved and repeated later. These special data combined with the program of the basic cycle to suit special c at least one stage of the basic cycle coincides with the cycle special application.

This type of control of the sterilising process can be adjusted large variety of special applications and is therefore univer

applicable. It requires no specially trained personnel.

JOHJ 07613 S/04 = DS 203 Self-adhesive plaster

JOHNSON & JOHNSON 15.07.69-US-841898

A25 P34 (A12 A15 A96) (18.12.80) *NL7010-413 A611-15/06 14.07.70 as 034761 (6pp260)

Clinging, elasticated adhesive plaster (I) consists of (a) a plearrier strip made from a foamed hydrophobic or synthetic or natural polymer and provided with an adhesive coa (b) an elastic suction pad made of a foamed polymer and attach the adhesive and (c) a removable protective coating fitted ove carrier and pad. The carrier and pad have the same, rever elastic extensability of 110-130% their original length.

The carrier strip is pref. made from a foamed PVC film. suction pad is pref. made from a carboxylated styrene/butac latex foam with a crosslinking agent introduced into the copoly during or after the polymerisation. The carrier and the pad are either made from the copolymer latex and have an extensabili 124% or from a polyurethane foam with an extensability of 128%

(I) adapt and cling better to irregularly formed body parts

their whole surface than known plasters.

29417 Y/17 = DS 255 Hydrophilic strip material coated with modified cellulose ether sanitary uses has improved water uptake capacity and I

HOECHST AG 01.08.75-DE-559606 (01.08.75-DE-534358) A94 F09 P21 P32 (A11 A96) (18.12.80) *DE2559-606 A41b-A61f-13 D06m-15/04

01.08.75 as 559606 Div ex 2534358 (5pp260)

f hydrophilic materials are coated on at least one side with es of modified cellulose ethers. The ether has been modified to wt.% water insoluble but to be strongly water swellable. webs can be produced other than by fleece or pad formation. ecial fixing agents are required for the particles. The als can be readily processed into bandages, medical supports, s, sanitary towels etc. which are comfortable to use.

D2281356 Y/46 = DS 2618-613ell acetalised polyvinyl alcohol foam bandage - waterproofed regnating with melamine, silicone or acrylate resins or by al modification

MCA CHEM UNION GM 28.04.76-DE-618613

P34 + P42 (A14) (18.12.80) *DE2618-613 A611-15/07

6 as 618613 (4pp260)

ell, acetalised polyvinyl alcohol foams made hydrophobic by cal means or having hydrophobic surfaces are used as support ges. The foams are pref. made hydrophobic by (a) use of a e, melamine or (fluorinated) acrylate resin, (b) by condensing wt.%, in the dry state, of a hydrophobing agent, (c) cation by introducing hydrophobic gps. such as 5-20C alkyl, r alkylaryl. The foam is pref. acetylised with 5-20C aliphatic des or aromatic aldehydes.

bandages readily absorb water, become flexible and can be d. They can be dried rapidly and retain their usual desirable

ties, such as hardness and rigidity.

D22 48191 A/27 = DS 2758-216tal for orthopaedic casts prodn. - by impregnating substrate lactone monomer, catalyst and opt. vinyl polymer, then erising

ION CARBIDE CORP 28.12.76-US-755001

6 P34 + P32 (A18 A23) (18.12.80) *DE2758-216 A611-15/07

77 as 758216

ages are produced by (A) impregnating a porous or permeable rate with a mixt. of (a) a cyclic ester monomer (I), pref. epsilon lactone, (b) 0.001-10 wt.% Al-tri-sec-butylate, (c) 0-45 wt.% vinyl ers of mol.wts. 5,000-600,000 and (d) a filler or medicament and lymerising the ester. In (I) each R can be H, 1-12C alkyl or y or halogen, x and y are 1,2,3 or 4, z is 0 or 1, x+y+z is 4-7 and of R different to H is 0-3.

vinyl polymer is pref. a copolymer of vinyl chloride (VC)/OH-I methacrylate or VC/glycidyl methacrylate, a terpolymer of rinyl acetate and vinyl alcohol, polystyrene or polyvinyl

idly fitted orthopoedic bandages can be made with or without tier by applying the softened bandage to a body part by simply ing it round the part and bonding the ends together under

$$(E-C-R) \times (R-C-R) y$$
 (I)

67131 A/38 = GB 1581-905r disinfection using antiseptic soln., esp. of respirators - using compressed air; monitoring water content in system PASTEUR (GENT) 26.07.77-FR-023835 (12.05.77-FR-

(31.12.80) *BE-866-978 + A611-02/20

8 as 018935 (12pp963)

ection process comprises (1) soaking a liq. absorbing element n aq. soln. of antiseptic gas prod. in a hermetic enclosure, (2) g an air flow through the enclosure and directing the flow onto ment to charge it with water vapour and antiseptic gas; and er treating material to be disinfected with this mixt., treating air charged with a neutralising gas. The flow of air in the ure is automatically interrupted before exhausting of the

antiseptic is an isothiazolinone deriv., esp. a mixt. of 5-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-The antiseptic may be mixed with a tracer comprising a e amt. of formaldehyde.

29060 A/16 = GB 1582-060D22 sing objects, esp. tape for beverage, e.g. milk, packaging - by ig through chamber contg. atomised sterilising agent and hot in through hot air chamber (NL 11.4.78)

TRA PAK INT AB 07.10.76-SE-011123 +P34 (31.12.80) *DE2744-637 + A611-02

17 as 040574 (7pp1376) ace is sterilised by exposure at a low temp in a closed chamber ipourised sterilising agent and a gas. The gas and agent are in a further chamber and delivered to the closed chamber

nat the agent condenses on the surface. the agent is mixed with dehydrating hot air, pref 90-120 deg C, atomised to a particle size of 5 to 15 microns. The agent is pref Milk packaging can be sterilised in a controlled manner.

KAOS * 00362 D/01 *GB 2049-553 Water absorbent embossed laminated sheet - comprising fibrous outer layers sandwiching polymeric absorbent layer

KAO SOAP KK 09.05.79-JP-056562

A96 P73 (A35) (31.12.80) B32b-03/28 B32b-05/24

29.04.80 as 014098 (8pp525)

water absorbent laminate comprises outer water absorbent fibrous layers e.g. of crepe paper, and a central layer of an absorbent polymeric material. The laminate is compressively embossed to form small areas of high embossment, surrounding areas of not so high embossment, and dispersed areas of no

Embossing is effected by a roller having spikes forming the highly embossed areas, flats to form not so highly embossed areas, and

spaced recessed to form the non-embossed areas.

The laminate is strong and extremely absorbent and finds particular use in the medical field such as diapers, sanitary napkins

KING-★ 00368 D/01 *GB 2049-620 Cover bag to enclose ostomy bag - and incorporating activated carbon to deodorise vented gases

KINGSDOWN MED CONSU 16.05.79-GB-017129

Q32 (31.12.80) B65d-30/02 16.05.79 as 017129 (3pp1358)

Bag is of woven or nonwoven material incorporating activated carbon particles or granules and pref. of carbon cloth as in GB1,301,101. A vent formed in an ostomy bag allows gases to escape through the cover bag which deodorises them.

The bag pref. has a rear wall cut-out for an ostomy bag coupling, also a top hood connected to or contiguous with the front wall and a pocket wall connected to or part of the front wall lower part and overlapping the rear wall without being connected to it. The bag may be made by conventional sewing and bias binding.

D22 00374 D/01 *GB 2049-661 CADB * Micro-biocidal bis-hydroxyalkyl:sulphonyl di:halomethane(s) - by halogenation of bis-hydroxyalkyl:sulphonyl:met ane(s)

CADBURY SCHWEPPES LTD 24.05.79-GB-018154 B05 C03 (31.12.80) A01n-41/10 A61k-31/10 C07c-147/02

24.05.79 as 018154 (4pp476)

Bis(hydroxyalkylsulphonyl)dihalomethanes the formula (I) HO-R-SO2-CX2-SO2-R-OH are novel. R is 2-3Ckylene and X is halogen. (I) is specifically claimed where R is ethylene and X is Cl or Br.

(I) are microbiocides and possess bactericidal and fungicidal properties. In tests in vitro against E.coli, S.aureus, P.vulgaris and Ps.aeruginosa they exhibit minimum inhibitory concns. of 250-1000 ppm. (I) are water-soluble and may be made up into aq. solns. or other suitable compsns.

D/01 *IT 1047-855

Tampon for use in menstruation COSTANTINI B G 12.05.64-IT-010394 P34 (20.10.80) A61m

 $66785 \text{ X}/36 = \text{J}8\,0047-603$ Germicidal, disinfectant, antiseptic compsn - contg. specified alkoxylated aliphatic amines plus metal chelating agent

KAO SOAP KK 25.02.75-JP-023283 C03 E16 P34 (01.12.80) *BE-838-720 A01n-33/08

25.02.75 as 023283 (14pp-) A germicidal, disinfectant, and antiseptic compsn. comprises amine cpds. of formula CHX-CH2-NR2-(R3-O)nH) or (II) together with an organic or inorganic cpd. capable or capturing metal atoms, (where R1 is 8-18C alkyl or alkenyl, R2 is H or 1-3C alkyl, R3 and R4 and 2-3C alkylene, X is H or OH, n is 1 or 2 and m is 0-2). The compsns. are used domestically, in water supplies to towns, and in industrial processes.

Cpds. of formula (I) and (II) have a wide anti-bacterial spectrum, are effective at lesser concn., have low toxicity and low surfactant power, but are not very effective against Pseudomonas. The combination with the inorganic or organic chelating agent greatly increase their effectivness against this strain. (J51098324).

ir effectivness against this strain. (J510983

$$(R_3-0)_nH$$

 $(R_3-0)_nH$
 $(R_3-0)_nH$
 $(R_3-0)_nH$
 $(R_3-0)_nH$

 $53266 \text{ B}/29 = \text{J}8\,0047-874$ Sterilising plant growth medium by heating - with separate treatment of phosphate components to avoid scaling of appts.

JAPAN TOBACCO & SALT PUB 16.11.77-JP-136743 (02.12.80) *J54070-492 + C12m-03

16.11.77 as 136743 (6pp42)

Method for sterilisation of medium (I) for plant tissue culture,

comprises sterilisation of phosphate (II), which is a component in (1), separately from sterilisation of (I) by heating. The appts. used comprises (i) 3 vessels (III); (a) (I) contg. components other than (II); (b) contg. water and (c) contg. (II)-solution; (ii) a pump for sending them to heater for sterilisation and (iii) a heater.

When (1) is heated for sterilisation, pptes, and scale form in (1) and on the surface of heating surface. This is caused by the reaction between (II) and calcium and/or magnesium salts, and prevents this reaction. (I) is sterilised by (A) sterilising (I), contg. components other than (II), (B) washing the surface of steriliser with water, (C) sterilising (II) soln, and (D) washing the surface of steriliser with water. (J54070492)

00464 D/01 * US 4237-559 Bone implant formed of high and low density ceramics - with dense core and porous layers on inside and outside to improve marrow growth and bone knitting GENERAL ELECTRIC CO 11.05.79-US-038097

(09.12.80) A61f-01/03 L02 P32

11.05.79 as 038097 (7pp909)

A composite ceramic structure for use as a bone implant comprises two members, both of fired alumina, calcium aluminate, lanthanum aluminate or yttrium aluminate, one of which has a porosity of 20 vol.% or less and the other has a porosity of 20-65 vol.%.

The dense member is elongated and has an axial aperture, and the more porous member is disposed within this aperture and also contacts selected outer surfaces of the dense member. In the more porous member, at least some of the porosity is interconnected and the grain morphology is indicative of having undergone vapour transport action.

The dense member provides a strong structural core for the composite while the porous parts on the inside and outside encourage growth of new bone marrow and provide a base for bone

and tissue attachment.

86106 A/48 = US 4237-591 D22 Sanitary pad contg. perfume avoiding perfume migration - contg. narrow perfume contg. element inside absorbent body

PERSONAL PRODUCTS CO 23.05.77-US-799850 (05.02.79-US-

009217)

(09.12.80) *BE-867-375 + D04h-05/08 D06b-03/02 A96 P32 + P34

05.02.79 as 009217 (6pp1376)

Absorbent products such as sanitary napkins are mfd. by suspending perfumed narrow strips above an endless air-pervious belt of a pad forming machine, and air-laying loose absorbent particles onto the belt and around at least one of the strips to form an absorbent body.

Pref. the strips are impregnated to give a perfume content of 0.2 to 0.8 g. per body. The strips may be woven or non-woven fabric,

strings, or cellulosic.

Migration of liq. perfumes to undesirable areas of napkins is prevented.

00501 D/01 *US 4237-889 D22 Diaper fastener with textured foil backing - of untensioned crystalline isotactic of polyolefin with alternating ridges and valleys MINNESOTA MINING CO 13.09.78-US-942026 (14.10.77-US-842058)

(09.12.80) A61f-13/16 A96 P32

13.09.78 as 942026 (10pp295)

Diaper adhesive fastener is formed from a strip of sheet material having a coating of pressure-sensitive adhesive bonded to one face. The sheet material is an untensilised, tough; ductile foil of crystalline polypropylene or linear polyethylene having a fine grain crystal structure. Its thickness is 100 to 500 micrometers. The foil has one smooth face and one textured face with a pattern of ridges and vallevs

Some of the ridges extend at 60 deg. or less to the lateral edge of the closure tab. The fastener has a tensile strength at yield of 2.5 kg./cm. width. It has a stiffness value of no more than 5 g.cm. parallel to its long direction and 3 g.cm. perpendicular to this direction. It has a tear propagation value of at least 100 g.

perpendicular to its long direction. With the ridges running along the length of the fastener they block any continuous path of potential tearing and thus accidental tearing

is minimised even when the edge of the fastener is nicked.

00504 D/01 *US 4237-912 D22 HRIN- * Cleaning system for inhalation therapy etc. tubes - which are placed circumferentially in cylindrical basket and loaded into washing machine drum oscillated rotationally

H&RINC 08.11.78-US-958604

(09.12.80) B08b-03/06 B08b-09 B08b-11/02

08.11.78 as 958604 (30pp295)

Tubes previously used for medical purposes e.g. anaesthetising and inhalation therapy are placed in a retaining basket within the drum of a washing machine. The tubes are placed so that their axes extend circumferentially. The washing machine is driven by a sequencer which takes it through a washing cycle in which the tub is filled with a cleaning liquid. The drum is then oscillated angularly to the cleaning liquid through the tubes.

The drum is then emptied while the drum continues to osc shake washing liquid from the tubes. Pref. the tubes are reby radial and vertical segments of the basket structure.

00536 D/01 *US D22 TIRI/ * Casting unitary tooth die and mounting pin - in single stag tapered pin with anchoring crosspiece

TIRINO A C 30.07.79-US-061679 A32 P32 (A96) (09.12.80) A61c-13 B29c-05

30.07.79 as 061679 (6pp1358)

A die and pin removable from a dental model are made by pl flat divider with rectangular central opening over a tooth case negative model, inserting a tapered pin through the o positioning the divider so that a pin top cross-member is loc the cavity, and pouring moulding material into the negative the pin to form tooth die and base in a single pour.

After hardening, the model is relieved through the base on side of the pin about the width of the tooth down to the divider the die can be removed. The method eliminates the conve

two-stage casting. The assembly of parts is claimed.

44493 B/24 = US 4 D22Corrosion inhibiting compsn. contg. amino carboxylic acid second nitrogen-contg. cpd., esp. for use in petroleum proc e.g. recovery and transport in pipelines

MALACO AG (KEMA) 16.11.77-SE-012957 (16.11.77-SE-012959 (16.11.77-

+ E21b-43/22

09.11.78 as 959083 (5pp977)

Corrosion of metals in contact with liq. systems is preven adding amino carboxylic acid formula RR(1)N(CH2)nCOOH v mono-, di- or polyamines, (b) mono-, di or triamines, (c) ammonium cpds., (d) morpholine, (e) cyclohexylamine imidazoline cpd. In (a)-(c) there is at least one at least 6C o hydrophobic gp. In the formula, R is 6-22C organic hydrophob R(1) is H, 1-4C alkyl or as R, and n is 1-10 (1-5).

Method is partic. used for preventing corrosion in oil recove

petroleum industry.

08099 B/05 = US 4: D22BETT-Steam steriliser for hospital use - with outer jacket supplie steam at two pressures under temp. control

BETTER BUILT MACH 29.12.76-US-755440 (31.05.78-US-91 (09.12.80) *CA1046-229 A611-02/06

31.05.78 as 911281 Div ex 4108601 (11pp1376)

Hospital and laboratory equipment is sterilised by pre-heat enclosed chamber using a steam jacket, placing the equipm the chamber, interconnecting the chamber and jacket introducing steam at a higher pressure to the chamber and when the temp. drops below a determined level

Pref. steam is used at pressures of 15 and 35 to 40 psig in tl stages. At the end of sterilising, the jacket and chamber are disconnected and the chamber is evacuated. Equipment c

sterilised at a variety of temps.

KANS- * D22 00667 D/01 *US 4: Homogeneous resin-poly-iodide disinfectant - prepd. by rec water through iodine to anion exchange resin in iodide form

KANSAS STATE UNIV R 20.04.79-US-031920 (09.12.80) A611-02/16 C02f-01/42 A97 P34

20.04.79 as 031920 (8pp928)

A homogeneous resin-polyiodide disinfectant contg. polyiodid prepd. by (a) converting strong base anion exchange resin be the iodide form; (b) placing the equiv. amt. of crystalline iodi reaction with the iodide in a separate dissolver; (c) recycling sequentially through the iodine and then the resin to carry dis: iodine for absorption by the resin; and (d) continuing until a iodine is absorbed by the resin to form polyiodide.

The disinfectants can be produced on an exact stoichior basis with no tendency for the iodine to deposit on the outside

FRAZ/ * D2200669 D/01 * US 42 Antimicrobial compsn. prodn. from natural flavanoid glycosic partial hydrolysis in acid medium

FRAZIERSE 19.07.79-US-058810 E13 (09.12.80) A61k-31/70 C07h-15 C07h-17

19.07.79 as 058810 (6pp914)

Prodn. of an antimicrobial compsn. comprises (i) forming a m a flavanoid glycoside of formula -Y-O-Z) with an acid whic stronger acid than (I) (where X is a flavanoid aglycone moiety; glucose or rhamnose gp.; and Z is H when Y is a rhamnose gp or a rhamnose gp. when Y is a glucose gp.); and (ii) maintaining mixt. under quiescent conditions at 60-100 deg.C for sufficient t provide a partially hydrolysed flavanoid compsn. which is dif from either flavanoid glycosides or flavanoid aglycones.

e compsn. has antibacterial and antifungal activity and may be e.g. as a disinfectant.

D22 64989 B/36 = US 4238-522opaedic cast or splint, or bandage for applying cast - comprising moplastic copolymer of lactone and acrylate having controlled ee of crosslinking

OTTS JE (UNIC) 24.02.78-US-881138 (27.03.79-US-024321)

96 P32 P34 (A23) (09.12.80) *EP---3-845 A61f-05/04

3.79 as 024321 (11pp918)

dage material (I) which is convertible into an orthopedic cast is luced by (A) applying an electrically conductive coating to the aces of the strands of a net substrate and (B) electrostatically ing the strands with a powder (II) comprising a thermoplastic, s-linkable copolymer (III).

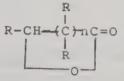
I) is prepd. by reacting an active-H contg. initiator at 25-300 C with an excess of a mixt. of (i) 90-99.5 wt.% of at least one

lactone of formula (IV). n is 3-6 and at least n+2 R's are H, the others are 1-10C alkyl (ii) 0.5-10 wt.% polyfunctional acrylate monomer contg. many acrylate or methacrylate gps.

After coating (C) the coating is fused to the substrate by heating and (D) (III) is cross-linked on the net substrate to a gel content of 20-

70 wt.%.

(I) can be used in the mfr. of casts, splints etc. to replace Plaster of Paris.



See Also

D15 GB1582005

D23: OILS; FATS; WAXES

01885 W/01 = DS 2457-550D23 3,4,4,6-Hexamethyl-1,2,3,4 tetrahydronaphthalene prodn. - from mene and neohexene with t-alkyl halide

GIVAUDAN L & CIE SA 05.12.73-US-422035 E14 (18.12.80) *US3856-875 C07c-13/48

2.74 as 457550 (5pp068)

3,4,4,6-Hexamethyl-1,2,3,4-tetrahydronaphthaline (I) is prepd. by cting para-cymene in equiv. amt. or in excess with an equimolar 1. of neohexene and a tert.-alkyl halide in the presence of an ydrous aluminium halide suspended in an inert solvent.

ref. solvents are ethylene dichloride, chloroform, methylene lloride, 1,1,2,2-tetrachloroethane, 1,2-dichloroethylene, 1,2,3hloropropane, 1,1,2-trichloroethane, monochlorobenzene, robenzene, ortho-dichlorobenzene and para-xylene. (I) may be tylated to obtain a musk-like ingredient for perfumes.

90553 Y/51 = DS 2726-056**D23** lusion complexes of meta-cyclophan with trans terpenoid cpds. ul for sepn. of trans cpds. from isomer mixts.

TEIJIN KK 08.06.76-JP-066044 214 (E19) (18.12.80) *DE2726-056 C07c-13/70

3.77 as 726056 (9pp068) nclusion complex cpd. comprises meta-cyclophane and a transenoid contg. 1-6 isoprene units which may be substd. in the 1- or osition by OH, 1-5C alkoxy, -O-CO-R where R is 1-5C alkyl or -CO-CH3 and there may be a carbonyl gp in the 1-position. The plex cpd may be formed in a process for sepg. trans terpenoids 1 their stereoisomeric mixts. by addn. of the meta-cyclophane at o 350 deg.C. (20 to 150 deg.C) in an amt. of 0.01-100(0.05-20) moles stereoisomeric mixt. of terpenoids. The complex cpd. may be and the trans-terpenoid e.g. geranylacetone, farnesylacetone, II, or geraniol recovered.

45685 B/25 = DS 2852-587D23 lyl-heptenone prepn. for use as terpene intermediate - by ring ling of 2,6,6-tri:methyl-5,6-di:hydro 4h-pyran with water and

e trans terpenoids are useful in perfumes, for vitamin K2, etc.

gen catalyst 'NIC SPA 03.01.78-IT-019008

(18.12.80) *BE-872-723 C07c-49/20 05 E17

.78 as 852587 (3pp47)

on. of methylheptenone comprises heating 2,6,6-trimethyl-5,6-tiro-4H-pyran (1 mole) with water (0.2-2.0 moles) and one or more gens (0.01-1.0 wt.%), or cpds. which generate halogens, at 50-130 C; followed by isolation of the prods. The resulting mixt. of a- and beta-methylheptenones is an intermediate for terpene 78. used as nutrients, pharmaceuticals and cosmetics.

31554 B/17 = GB 1581-910D23rogenating crude glyceride oils using nickel catalyst - together auxiliary copper chromite catalyst

CM CORP 17.04.78-US-896508 1.12.80) *BE-871-273 C11c-03/12

78 as 022753 Add to 1542379 (10pp931)

ide glyceride oil which has not been subjected to conventional i-refining techniques is hydrogenated by subjecting the oil in a ogenation zone with H2 under hydrogenation conditions in the nee of more than 0.02 wt.% Ni catalyst and 0.2wt.% or more er chromite adjunct catalyst.

The concn. of the adjunct catalyst is established and maintained proportional to the concn. of contaminants present in the oil, and the hydrogenation is discontinued after at least a significant increase in saturation of the oil has occurred

The hydrogenation may be performed rapidly on a continuous basis using vegetable oils, animal fats or fish oils.

 $93344 \text{ X}/50 = \text{J8}\ 0047-070$ Starch deriv. as gelling agent for fat - which is liq. at room temp.

KAIHATSUKAGAKUKK 23.04.75-JP-049263

A11 (A97) (27.11.80) *J51123-784 C11b-15 + B01j-13 C09k-03 23.04.75 as 049263 (6pp)

The agent is prepd. by decomposing starch with an aq.soln. of dilute acid at above room temp. so as to be converted to 10-50 glucose unit of average polymerisation extent, and esterising the resulting decomposed prod. with satd. fatty acid anhydride or satd. fatty acid chloride of 12-18C in the presence of a base catalyst to produce starch having above 10 of esterised extent per anhydrous glucose

The agent can be uniformly dissolved in liq. fat at a relatively low temp. and can be gel fat in addition of 2-4%. The agent can be used for gelation of animal or plant fat, liquid paraffin, fatty acid ester, or

high grade alcohol. (J51123784).

NIPK * D23 00421 D/01 *J8 0047-078 Inhibiting smell of oil or fat during storage - by addn. of di:hydroxy

NIPPON KAYAKU KK 25.05.73-JP-057689

(27.11.80) C11b-05

25.05.73 as 057689 (2pp22)

Dihydroxy acetone is added to oil or fat effectively inhibiting the smell of oil or fat during its storage. Amt. of cpd. added is 10 to 100 mg%.

D23 00588 D/01 **±** US 4238-304 RAYB * Recovery of tall oil from acidified black liquor soap - involves applying a voltage across the liquor to enhance the degree of tall oil sepn. from the sludge

RAYBESTOS-MANHATTAN INC 30.08.79-US-071007

F09 X25 (09.12.80) B01d-17/06 C02f-01/46

30.08.79 as 071007

Method for improving recovery of tall oil from black liquor obtd. from a paper making process, comprises sepg. the alkaline black liquor soap from the black liquor, acidifying the black liquor soap to a stable pH of 2.0 to 2.5 until the soap is converted into the acid form, whereby the acidified soap will separate into layers including an upper tall oil layer and a lower sludge layer contg. tall oil, applying electrical potential to the acidified soap with a voltage gradient of about one to about 100 volts to cause liberation of tall oil from the sludge layer without substantial hydrolysis and removing the tall oil from the liquor.

See Also

D13 US4238344

D24: SOAP: SOAP DETERGENTS

NOTHING TO REPORT

D25: OTHER DETERGENTS

26084 W/16 = DS 2349-293 Cleansers and detergents with disinfectant activity - contg. anionactive 2-hydroxy-4-thia- or 2 hydroxy-4-aza-alkane sulphonates and cation- active surfactants HENKEL KG AUF AKTIEN 01.10.73-DE-349293

E12 (18.12.80) *DE2349-293 C11d-01/65

01.10.73 as 349293 (5pp068) A washing agent with improved disinfecting properties contains anionic and cationic surfactants in the wt. ratio 20:1 to 3:1 (10:1 to 4:1). The anionic surfactant comprises at least one cpdof formula R-CHY-CH2-X-CH2-CH(OH)-CH2-SO3Me (where R is 6-14Calkyl or alkenyl; s NR', R'-NO, S or SO; R' is methyl, ethyl, H2CH2O)n-H or (CH2CH(CHCH3)O)n-H, Y is H or OH, n is 1-4 and Me the valency of an alkali(ne earth) metal, ammonium or an organic ammonium base) e.g. a sodium salt of a 2-hydroxy-4-thioalkane sulphonic acid. The cationic tenside is a capillary active ammonium cpd. pref. a cpd. such as stearyl-dimethyl-benzyl ammonium chloride.

A builder such as a polyphosphate, carbonate, silicate, polycarboxylic acid or polyphosphonic acid alkali salt is pref.

present.

15919 A/09 = GB 1582-039PROC Dry stable bleaching compsn. - contg. peroxy acid and cpd. releasing water on heating e.g. boric acid
PROCTER & GAMBLE CO 27.08.76-US-718282

(31.12.80) *BE-858-144 D061-03/02

26.08.77 as 035956 (8pp974)

Novel dry granular bleach compsns comprise a peroxy acid cpd. which is a (salt of a) water-soluble acid, and a nonhydrated material which will start to release water by chemical decomposition at below the decompsn. temp of the acid.

The nonhydrated cpd is present at least 50 wt% (w.r.t the acid) and is sufficient to release 200-500% water (w.r.t O released by the acid).

Compsns. have improved exotherm control.

06746 A/04 = GB 1582-130D25 Recovering traces of platinum gp. metals from waste solns. - by anodic oxidn., cathodic redn., and repeated anodic oxidn.

MATTHEY RUSTENBURG 13.07.76-GB-029093

M28 X25 (31.12.80) *DE2731-698 C25c-01/20 + C02f-01/46 C25b-01

13.07.77 as ---- (4pp945)

Platinum gp. metal present as a stable complex or cpd. in aq. effluent soln. is recovered electrolytically after adjusting the soln. to pH 10 or more. Electrodes of Ru, Rh, Pd, Ir, Pt or their alloys or graphite are used with anode potential having a half cell voltage of 5.5V or more NHE, overall cell coltage 8V or more and current density at least 0.2 A/cm2.

The soln. may be pretreated to effect a preliminary removal of the metal. Pref. the process is effected at above 60, pref. 75-80, dec.C. The metal may be recovered as pptd. oxides, hydrated oxide, or hydroxide and/or as cathodic metal deposit. Even traces of Pt gps. metals can be recovered and total metal concn. in the treated soln. is

08288 A/05 = GB 1582-200HENK Conc. liquid cleaning compsns. for washing contg. enzymes - with alkoxylated alkylamine as enzyme stabiliser

HENKEL KG AUF AKTIEN 27.07.76-DE-633601 A97 E16 (A25 D16) (31.12.80) *BE-857-144 C11d-03/30 + C11d-A97 E16

26.07.77 as 031214 (10pp954)

Liq. concentrates, usable as a washing and cleaning agent, comprises an enzyme prepn. contg. a protease and/or amylase, a non-ionic and, opt. an anionic surfactant, water and, opt. a solvent e.g. alcohols, diols and ethers, and relative to 1 pt.wt. of enzyme prepn. of activity 10-10,000 SKB per g. amylase or 1,000-1,500,000 PE per g. protease; 2-500 pts.wt. of an alkoxylated alkylamine of

In (I) R is 4-19C alkyl; R1 is H or 1-10C alkyl, with the proviso that the total number of C atoms in R plus R1 is 9-19; R2 is H; or (hydroxy)-methyl gp.; x is 1-5; and y is 0,1-5, with x plus y equal to 1-

10. The addn. of (I) stabilises the concentrate.

R (CH2-CHR2-0) xH R1 (CH2-CHR2-0) yH (I)

57293 C/33 = US 4 D25 **JOHS** Stable aq. hydrogen peroxide bleach compsn. - contg. o

phosphoric or boric acid, nitrogen-contg. cpd. and dye or brigit JOHNSON S C & SONS INC 22.01.79-US-005127 E36 (09.12.80) *EP--13-886 C11d-03/39 D06l-03/02

22.01.79 as 005127 (8pp982)

Stable aq. bleach compsn. comprises (a) 2-12 (2-8) wt.% hy peroxide; (b) 0-20 (0.5-8) wt.% of an organic acid, phosphor and/or boric acid; (c) 0.05-10 (0.5-1.5) wt.% of at least one amino acid; (d) 0.0001-1 wt.% of a dye and/or optical brighten (e) water.

Pref. amino acid is methionine and/or glycine and the o

acid is adipic acid, phthalic acid or citric acid.

Compsn. is used as a laundry bleaching prod. which contains which does not adversely build-up on laundry after rej washing.

86445 B/48 = US 4**ECON** Stabilised liq. enzyme-contg. detergent compsns. antioxidant and an organic hydrophilic poly:ol ECONOMICS LAB INC 22.05.78-US-908505

(D16) (09.12.80) *GB2021-142 C11d-03/38

22.05.78 as 908505 (12pp977)

Stabilised, liq. enzyme-contg. detergent compsn. consists of (a wt.% of water, (b) proteolytically effective amt. of prote enzyme uniformly distributed and having original activity 10 casein units per gram, (c) 1-70 wt.% of detergent chosen from a and/or nonionic surfactants, and (d) 0.5-30 wt.% of water-dispe stabilising system for the enzyme.

The system comprises the combination of (1) 0.1-5 wt.% of dispersible antioxidant having single electrode potential, deg.C, for the oxidn. of the antioxidant to an oxidised species, is at least equal to that of ascorbic acid but less than that of so hydrosulphite, where the antioxidant is a water-soluble metal an oxidisable, oxygenated sulphur anion, (2) 1-25 wt.% of an or hydrophilic water -soluble free water-reducing polyol b mol.wt. less than 500 and contg. 2-6 hydroxyl gps., and (3) buf amt. of weak base for maintaining the pH of the compsn. at and for preventing spontaneous downward shifts of the comps. shifts would result from the spontaneous oxidn. of the anion.

The compsn. is partic. useful in methods for remproteinaceous soils from fabric.

D25 38465 Y/22 = US 4Alkali alumino-silicate zeolite detergent builder - prepd. smectite clay and having alkali buffer and metal ion properties

MIZUSAWA KAGAKU KK 13.10.76-JP-121795 (18.11. 137814)

A97 (09.12.80) *DE2652-409 C01b-33/28 C11d-03/12 + B01 C02b-01/44

17.04.78 as 896767 Div ex 4102977 (+12.11.76-US-741365) (27.11. 141141)

Detergent compsn. comprises (A) 1 to 99 wt.% of at leasurfactant selected from the anionic, non-ionic and amph surfactants and (B) 1 to 99 wt.% water-insoluble alkali aluminosilicate builder. The alkali metal aluminosilicate b consists of an inorganic fine powder composed mainly of metal aluminosilicate having an X-ray diffraction pattern the as that of zeolite of type A and having a degree of crystallisatio

The inorganic fine powder has (I) a max. prim. particl smaller than 1 micron and such a sec. particle size distributio all particles of the fine powder are smaller than 4 microns, the prim. particle size being expressed by the max. length a lengths of edges of cubic particles measured by electron micro and sec. particle size distribution being measured accordi Stokes' law, (II) a buffer capacity (S) of at least 132 ml/100 g of s an initial buffer capacity (R) of at least 35 ml/100 g of solids a effective alkali content of 2 to 8 wt. % based on inorgani powder, buffer capacity (S), initial buffer capacity (R) and eff alkali content (Qc) being respectively expressed by an amt. necessary for lowering the pH of a 1% aq. dispersion of inor fine powder from 9.0 to 6.75, an amt. of HCl necessar loweringthe pH of the dispersion from 9.0 to 8.0 and alkali, as equivalent to an amt. of HCl necessary for lowering the dispers 6.75 when the dispersion is titrated with 0.4 N HCl at a rate of 2 (III) a calcium ion binding property (C.I.) of 90 to 160 mg/g (as (V) a suspension pH of 9.5 to 12, (V) such a suspension stability hen a 0.05% aq. suspension of the inorganic fine powder is to stand still, the sedimentation speed is lower than 4 cm/hr, Methylene Blue-adsorbing capacity, (VII) an oil absorption of t 45 ml/100 g of the powder and (VIII) an interfacial electric teristic that when it

D25 68458 B/38 = US 4238-373 of intimate mixt. of N-based cationic surfactant - and water-dispersible cpd., by quaternising tert. amine in liq. medium constitutes cpd., using volatile quaternisation agent OCTER & GAMBLE CO 07.03.78-GB-008989 (06.03.78-GB-

E19 (09.12.80) *EP---4-108 C11d-01/62

9 as 017209 (8pp965)

ction of a solid mixt. of a nitrogenous cationic surfactant and a soluble or dispersible organic component comprises (a) at a t-amine with a quaternising agent in the liq. organic ment. 1 of the t-amine and quaternisation reactants has a b.pt. cospheric pressure of 200 deg.C or less and is present in excess. eaction is carried out at less than 50 deg. C to form the stant while avoiding colour body formation. (b) the prod. mixt. ated at 200 deg.C or less to remove excess reactant leaving a contg. organic component and surfactant in a ratio of 50:1 to 1:2 the mixt. is then cooled.

t-amine has structure (R')(R)NR or (I). R' is 1-22C alkyl opt. in addn. up to 20 ethoxy gps. R and R can be the same as R' or dependently benzyl or 1-4C (hydroxy)alkyl. Not more than 1 gp. nolecule may be benzyl. The quaternising agent is 1-4C alkyl 2.4C alkylene oxide, 12-14C alkyl bromide or 10-18C alkyl chloride. The organic component has a molecular wt. larger 240 and is (i) fatty alcohol mixt. contg. on average more than toms or (ii) polyethylene oxide condensates of 10-20C alcohols,

10-18C fatty acids, 6-12C alkyl phenols and 10-18C fatty acid esters of sorbitan.

UNIL \star D25 00692 D/01 \star US 4238-531 Additive compsns. for tumbler-dryers - contg. ammonium carbonate, quat. ammonium salt, alcohol ethoxylate, or carboxylate acid as distributing agent

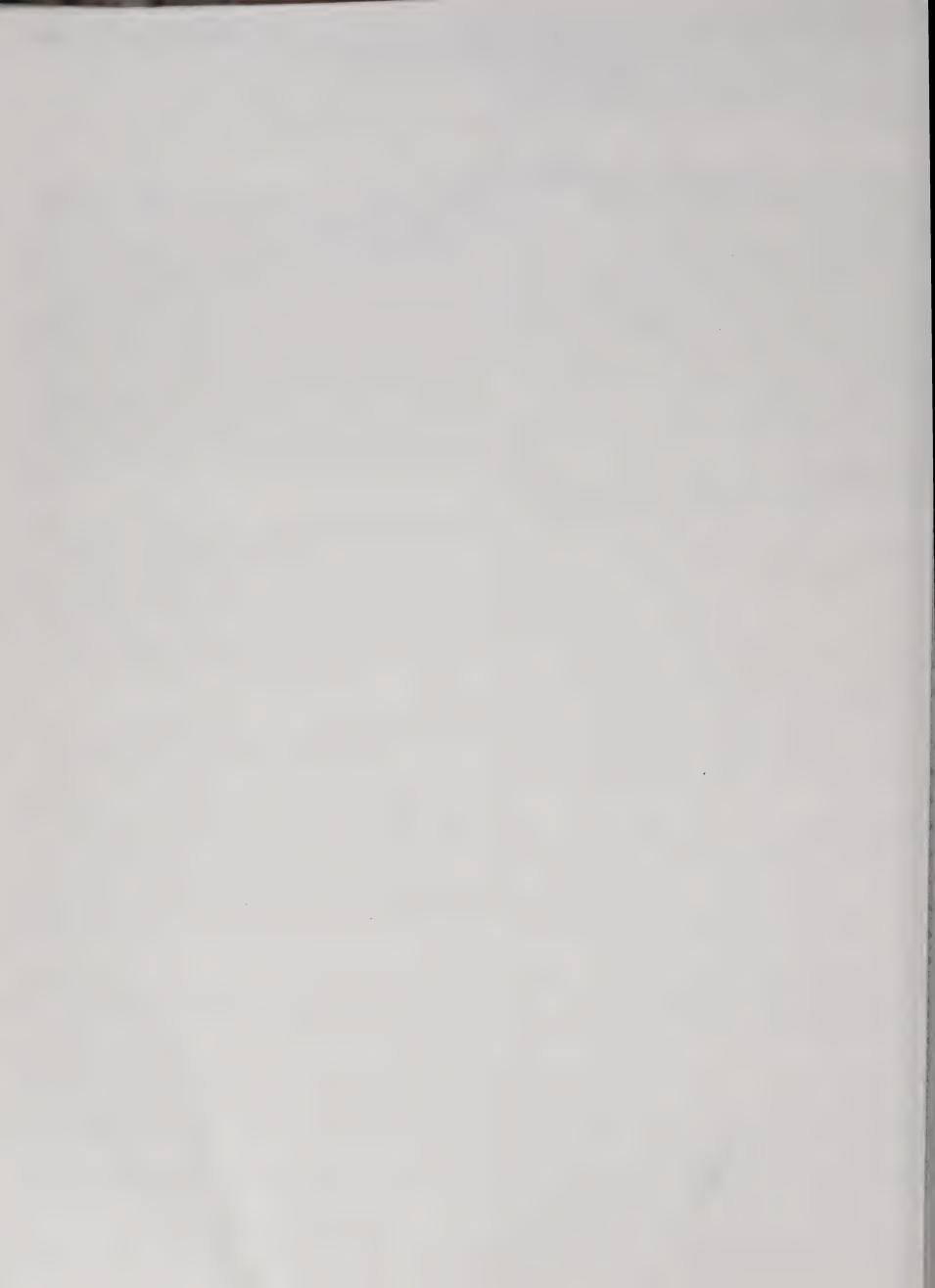
LEVER BROTHERS CO 21.11.77-US-853663 (29.06.71-US-158006)

A97 E35 P42 (E19) (09.12.80) B05d-03/12

21.11.77 as 853663 (+5.7.73,24.6.75-US-376586, 589993) (7pp478)
Compsns. for applying a variety of adjuvants (I) to fabrics consist of:
(a) not greater than 95% by wt. of (I) (by wt. of (I) and (II)); and (b) a distributing agent (II). The compsns. are contained in or on suitable means for applying them to fabrics. (I) is a fabric softener, optical brightener, antistatic agent, stain repellent, soil release agent, wrinkle preventative, deodoriser, freshener, cleaning agent, surfactant, moth proofing agent, or bleaching agent.

(II) is (NH4)2CO3; a quat. NH4 cpd. 2R7R8R8)yX (R2 is 1-4C alkyl; R7 is 10-14C alkyl; each R8 is R2 or R7; X is anion imparting H2O dispersibility; y is valency of X)ondensates of alkyl alcohols and ethylene oxide which melt at dryer temps.; or lower mol.wt. innocuous carboxylic acids which promote the spreading of the adjuvant. Incorporation of (II) into the compsn. improves the

uniformity of the distribution of (I).



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EN 01.12.77 AGENCY OF IND SCI TECH A96 B04 D16 F01 (A14) = J8
mmobilised enzyme fibre prodn. - 88389B/49
RO-12.02.79 AGROKEMIA SZOVET C03 D13 #CS 7900-937
eedstuff, esp. feed concentrate prodn. - 60623C/35
N 01.04.77 AJINOMOTO KK D13E12 = J8 0047-877
i:sodium 5'-guanylate and di:sodium 5'-inosinate mixed crystal prepn. -
8571A/49
N 02.04.79 AJINOMOTO KK B05 D16 E16 = GB 2049-670
threonine prodn. by fermentation of Escherichia coli strains - 77301C/44
N 03.04.79 AJINOMOTO CO INC B05 D16 = GB 2049-703
Di:peptide prodn. in presence of immobilised protease - 73469C/42
E 19.12.77 ALBERTO CULVER CO D21 *US 4238-509
Cosmetic creme contg. fine oat flour - 00680D/01
R 06.05.80 BUSH BOAKE ALLEN LT D23 E13 = GB 2049-422
Di:hydro:pyran and dioxan cpds. for perfumery compsns. - 83069C/47
X-04.07.79 ALEXANDERWERK AG D12 X25 *DS 2926-975
Meat cutter and mixer - 00319D/01
A 20.04.78 ALFA-LAVAL AB D13 = US 4237-781
Gravity pressure extrusion to mfr. blocks of cheese from curds -
54736B/36
1A/ 15.06.79 ALHAUSER E D15 J04 S03 *DE 2924-048
lectric conductivity monitor for highly purified water - 00132D/01
(U 04.05.79 AKZO NV A88 D15 J01 (A25) = GB 2049-544
Polyurethane ultrafiltration membrane for oil sepn. from water -
55967C/38
C 09.08.79 ALLIED CHEMICAL CORP D15 E33 *US 4238-347
itorage stable amorphous poly:aluminium sulphate(s) - 00611D/01
1-20.06.75 ALL INDIA INST MED B04 D16 *IT 1047-755
Contraceptive vaccine prepn. - D/01
CY 30.06.76 AMERICAN CYANAMID CO B03 C02 D16 = CS 7704-257
Anticoccidial antibiotic BL 580 delta - 02059A/02
SA 05.06.79 AMERICAN STERILISER CO D22 S05 T06 *DE 3014-549
sterilising apparatus control - 00215D/01
IS 03.01.78 ANIC SPA B05 D23 E17 = DS 2852-587
Methyl-heptenone prepn. for use as terpene intermediate - 45685B/25
II- 10.12.75 INTR ANTIBIOTICE B04 D16 *RO --67-001
Priseofulvine purification from mycelium or crude prod. -
H 17.09.73 ASAHI KASEI KOGYO K A88 D16 E37 J01 (A97 D13) = DS
ilter for absorbing polyphenols from wines, beers - 21382W/13
= 29.05.78 AS USSR BIOORG CHEM A96 B04 D16 = GB 2049-700
tabilisation of immobilised proteins - 01727C/01
R 02.10.75 ASTRA EWOS AB C03 D13 #IT 1047-676
nattle fodder contg. urea - 72769W/44
NO-07.06.79 ATMOS LEBENSMITTELT D14 *DE 2923-100
ood tins charging station - 00040D/01
E-15.06.79 AVTEX FIBERS INC A11 D22 F01 (A96) #DE 2924-297
ended rayon fibres of high liquid retention - 75346B/42
W 22.07.77 BABCOCK & WILCOX CO D15 E36 J01 K05 = DS 2830-972
ectrodialysis and ion-exchange treatment of ionised soln. - 82185A/46
1 09.08.76 BASF AG B05 C03 D13 E24 (D21) = GB 1582-042
ectrochemical prepn. of symmetric carotenoid(s) - 12264A/07
 19.11.77 BASF AG C03 D13 = CS 7807-494
edstuff additive for monogastrenes e.g. piglets - 40773B/22
  06.09.78 BASF AG C03 D22 E14 G02 = CS 7906-014
1. Tri: halo: sulphenyl formanilide derivs. - 20583C/12
15.06.79 BASF AG B03 C01 D22 E11 *DE 2924-150
Fluoro-2-pyridyl-thio- and di:thio-phosphate derivs. - 00151D/01 1/10.12.79 BALCAREK J D18 *CS 7908-572
 mulation of leather equipment conveyor delay - 1/05.05.79 BARNES RI D25 = GB 2049-722
 ** aning compsns. contg. petroleum distillate and surfactant - 82886C/47

** 25.09.79 BARTON M D16 *CS 7906-458

** dary washing head - D/01

** 12.12.79 BARTAK L D15 *CS 7908-676
 nter purificn, and treatment appts.
                                          D/01
  /10.09.79 BAUERS D16 *CS 7906-131
 phovite microorganisms cultivation unit - D/01
  1-14.06.79 BAUMGARTNER PAPIERS D18 E33 = DE 3021-668
  vouring cigarette smoke - 75361C/43
  15.05.78 BEATRICE FOODS CO D13 #GB 1581-906
  biliser, thickening agent etc. for food - 21993B/11
16.05.75 NATURIN-WERK BECKER A35 D12 (A97) = CS 7603-173
  -softening tie zones on sausage skin ends - 88810X/48
10.10.78 BECTON DICKINSON CO D16 *US 4238-568
  ler bottle for cell culturing - 00707D/01
  228.09.74 BEECHAM GROUP LTD B06 D21 = IT 1047-589
  i caries compsn conta fluorine cpds - 28298X/16
  31.07.79 BELIK E D16 *CS 7905-289
illus licheniformis CCM 3403 microorganism strain - D/01
27.02.74 GEBR BELLMER MASCH D15 J01 = J8 0047-928
  moval of liquids from sludges - 59038W/36
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BETT- 31.05.78 BETTER BUILT MACH D22 = US 4238-447
     Steam steriliser for hospital use - 08099B/05
 *BIEL/ 13.08.79 BIELY P B04 D16 *CS 7905-504
  Extracellular prodn. of endo-1,4-beta-xylanase - D/01
BIOG- 07.05.79 BIO-GAS COLORADO IN D15 = GB 2049-649
      Animal waste treatment system - 48022C/27
   BIOT- 01.05.79 BIOTEKN INST D13 J04 S03 (D16) = DK 7901-788
     Prophylactic determination of food putrefaction - 86357C/48
          09.06.76 BOEHRINGER MANNHEIM GMBH B04 D16 J04 S03
  (S05) = CS7703-018
     Substrates compsn. or enzymatic activity evaluation - 81194Y/46
  BOEF 04.04.79 BOEHRINGER MANNHEIM GMBH B04 D16 = FI 8001-
  025
     Enzymatic analysis reagent - 73668C/42
  BOEF 10.04.79 BOEHRINGER MANNHEIM GMBH A96 B04 D16 = FI
  8001-111
     Removal of ascorbic acid from aq. solns. - 77368C/44
  BOEH 22.03.79 BOEHRINGER INGELHEIM BO4 D16 = FI 8000-743
     Cholesterol esterase enzyme activation in ionic soln. - 71667C/41
  BOLI 23.03.79 BOLIDEN AB D15 F09 = FI 8000-837
     Solid, non-dusting flocculating agent - 77574C/44
  BORY/31.01.80 BORYSEK V D14 *CS 8000-648
Onion peeling and cutting appts. - D/01
BRAU-09.04.79 BRAUPATENT UNIV AG D16 = FI 8001-104
  Beer brewing vat - 77579C/44
BRIM 02.04.79 BRISTOL MYERS CO B02 C02 D16 (D13) = FI 8000-973
     Antitumour antibacterial complex BBM-928 and individual components -
     73461C/42
  BRPE 01.11.76 BRITISH PETROLEUM LTD A97 D15 H01 = US 4238-331
  Filtration of sea water, esp. for secondary oil recovery - 24106C/14 BRTK/ 17.04.79 BRTKO J C02 D16 = CS 7902-571
     5-Acetoxy-2-acetoxymethyl-4-pyrone insecticide - 79138C/45
  BUCM 07.04.76 BUCHERGUYER MASCH D14 = C$ 7702-188
     Fruit juice extractor with rotatable receptacle - 77794Y/44
*BULT/ 24.05.79 BULTMAN LE D15 *US 4238-336
     Diffuser for waste sludge treatment - 00605D/01
*BYDG- 05.06.79 BYDGOSKIE BIURO PRO D15 *DE 3009-707
     Compact treatment system for water or sewage - 00214D/01
*CADB 24.05.79 CADBURY SCHWEPPES LTD B05 C03 D22 *GB 2049-661
     Micro-biocidal
                         bis-hydroxyalkyl:sulphonyl di:halomethane(s)
  CALP- 17.12.70 CALPIS FOOD IND CO D13 = IT 1047-892
 Sour milk drinks - 43164T/27
CASS 23.12.77 CASSELLA AG A87 D18 E19 F06 = CS 7808-844
 Compsn. for treating cellulosic textiles and leather - 49263B/27 CELF- 11.08.77 CELFIL CO D18 F09 = CS 7805-242
     Mfr. of paper band for cigarette filter tips - 89704A/50
  CHEM- 08.07.75 CHEMBIOMED LTD B04 D16 S03 S05 = US 4238-473
 Beta glycoside derivs. for coupling to carriers - 06114Y/04
CHFS 29.03.72 CHEM FAB STOCKHAU D18 = J8 0047-080
Leather nourishing compsn - 54165U/37

CIBA 24.02.78 CIBA GEIGY CORP A97 D15 (A26) = US 4238-328

Elimination of heavy metal ions from waste waters - 6316B/35

*CLUJ-26.01.74 CLUJEANA COMB PIELA D18 S03 *RO --67-777
     Elongation and tearing resistance meter for animal skins - D/01
 COLG 03.06.71 COLGATE PALMOLIVE CO A96 D21 = DS 2226-401
     Toothpaste - 79851T/50
 COLG 31.10.74 COLGATE PALMOLIVE CO D22 = IT 1047-720
 Disposable baby's nappy with elastic belt and adhesive band - 26477X/15 COLG 31.10.74 COLGATE PALMOLIVE CO A96 D22 = IT 1047-721
 Disposable diaper with pleat securing tape - 82924W/50 COLG 31.10.74 COLGATE PALMOLIVE CO D22 = IT 1047-736
 Disposable diaper with elastic loop - 81151W/49

COLG 19.05.78 COLGATE PALMOLIVE CO A96 D21 E19 (A25) = US
 4238-476
    Transparent gel dentifrice of specified compsn. - 71735B/40
 COLG 18.05.79 COLGATE PALMOLIVE CO B05 D21 E19 = GB 2049-421
    Oral hygiene composition contg. peroxy:di:phosphate - 69592C/40
 COMP- 19.12.75 INTR COMPONENT ELTR D15 L03 M11 *RO --66-955
                                                    D/01
    Nickel plating waste water purification -
 CORP 15.12.78 CPC INTERNATIONAL INC D17 = US 4237-619
Fluidising raw material e.g. starch in vertical container - 74024C/42 *CORP 23.05.79 CPC INTERNATIONAL INC D17 (D16) *GB 2049-698
 Non-crystallising dextrose-maltose syrup prodn. - 00377D/01
COST/ 12.05.64 COSTANTINI B G D22 *IT 1047-855
 Tampon for use in menstruation - D/01
CROA/ 28.06.79 CROASDELL D F D12 #US 4237-580
Separating the cheek muscles of a pigs head - 63417B/35 *CURI/ 03.10.79 CURIK A D18 *CS 7906-681
 Leather waste processing method - D/01
CWMB 04.04.79 CHEM WERKE MUNCHEN D25 E12 = FI 8000-904
    Prodn. of fatty acid soaps in granular form - 79208C/45
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*DAGN/08.06.79 DAGNESE R D18 *BR 7903-917
Lower supporting cylinder raising mechanism control - D/01
DAIE 28.03.79 DAINICHI NIPPON CABLES D15 E32 M25 = GB 2049-733
Gold cyanide, and opt. silver cyanide, recovery from liquid - 73853C/42

*DEDE/ 25.07.77 DEDEK M D13 (D16) *CS 7704-923

Microbial rennet prepn. - D/01 *DEDE/ 15.09.77 DEDEK M D13 *CS 7706-005 Soured dairy products prodn. - D/01

*DEDE/11.09.79 DEDEK M D13 (D16) *CS 7906-144

Rennet products prepn. from inorganic materials - D/01

DEER-02.05.79 DEER PARK BAKING CO D11 = BR 8002-634

Cookie mfg. appts. with transfer conveyor - 80648C/45 DEER- 02.05.79 DEER PARK BAKING CO D11 = DK 8001-726

Cookie mfg. appts. with transfer conveyor - 80648C/45 DEGS 16.05.72 DEUTSCHE GOLD & SILBER D15 E34 (D12 E35) = RO --65-

Air and water purificn - 65215U/43

DEGS 16.03.74 DEUTSCHE GOLD & SILBER A97 C03 D13 E17 (D22 E12)

= CS 7501-241 Animal feed preservatives contg. (meth)acrylic acid - 64177W/39 DEGS 26.09.74 DEUTSCHE GOLD & SILBER D15 E17 = IT 1047-959

Removing formaldehyde from waste water - 26476X/15

DEGS 02.05.79 DEGUSSA AG D15 E36 J03 S03 = DK 8001-799 Measuring concn. of dissolved cpds. - 80714C/46

DEGS 02.05.79 DEGUSSA AG D15 E36 J03 S03 = GB 2049-951

Measuring concn. of dissolved cpds. - 80714C/46 DFOR- 06.04.79 DE FORENEDE BRYGGER A96 B04 D16 = FI 8001-035

Prepn. of peptide(s) - 77016C/43 *DITT/ 29.12.79 DITTRT F D16 *CS 7909-557

Continuous cultivation of autotrophic microorganisms -

DOUG/ 30.06.76 DOUGLAS D A97 B07 D13 = GB 1581-841 Edible fibrous cellulose coated with edible gum - 04723A/03

DOWO 29.03.79 DOW CORNING CORP A96 D22 = BR 7908-596

Protector for flexible bone joint prosthesis - 32518C/18
DOWO 07.06.79 DOW CORNING CORP A96 D21 = DE 2940-909

Anti-perspirant emulsion compsn. - 34603C/20
*DPON/ 15.06.79 DA PONTE BECHER B D14 *DE 2924-199

Ice cream portion scoop - 00162D/01

DREW 25.04.79 DREW CHEMICAL CORP A97 D15 E13 M14 (A14) = BR 8002-533

Corrosion inhibiting compsn. for aq. systems - 64217C/37 * DUDE- 21.07.76 DUDESTI INTR CHIM D22 E24 *RO --67-432

Crystal violet prepn. - D/01
DYNL 25.10.72 DYNAPOL A97 D13 = IT 1047-950

Flavouring agents - 17383V/10

ECON 22.05.78 ECONOMICS LAB INC D25 (D16) = US 4238-345 Stabilised liq. enzyme-contg. detergent compsns. - 86445B/48 EGRE/ 26.05.77 EGRETIER M D16 = US 4238-511

Winemaking maceration process of the carbonic type - 16329B/09

*EIIC-06.03.75 EIICHI ARAKAWA D15 *J8 0047-922 Device for purifying water - 00446D/01

ELIL 01.02.73 ELILILLY & CO B04 C03 D13 (D16) = RO --64-564

Poultry and cattle food additive - 59392V/33 ELIL 24.05.76 ELILILLY & CO B05 D16 = CS 7703-396

Antibiotic (A-35512 B) aglycone - 45173Y/25 ELIL 08.12.77 ELI LILLY & CO B03 C02 D16 = CS 7808-006

Antibiotic A-40104 fraction A - 93172A/51

ELIL 08.12.77 ELI LILLY & CO B03 C02 D16 = CS 8000-429

*ENEA/ 15.06.79 ENEAL D13 *DE 2924-242
Non-alcoholic fresh milk ultrafiltration permeate drink - 00165D/01

EWOS 02.04.79 EWOS AB A96 B04 C03 D22 = FI 8001-026 lodophor containing udder disinfectant - 77575C/44

FARB 09.10.74 BAYER AG A82 D18 F08 G02 (A25) = IT 1047-719 Coating leather and plastic surfaces - 32166X/18 FARB 22.03.79 BAYER AG C03 D22 E17 = FI 8000-873

Microbicidal agents for use as disinfectants - 71715C/41

*FARB 08.06.79 BAYER AG B02 C02 D13 E13 *DE 2923-339 6-Acylamino-penicillin-1,1-di:oxide derivs. - 00056D/01

FARH 07.10.74 HOECHST AG A97 D12 (A11) = IT 1047-698 Cellulose hydrate sausage casings - 30141X/17

FARH 07.10.74 HOECHST AG A11 D12 (A88 A92 A97) = IT 1047-700 Thermoplastic material based on modified protein - 30352X/17

FARH 07.10.74 HOECHST AG A11 D12 (A88 A97) = IT 1047-708

Thermoplastic material based on modified protein - 30354X/17 FARH 07.10.74 HOECHST AG A11 D12 (A32 A88 A97) = IT 1047-709 Moulded bodies from modified albumin - 30353X/17

FARH 09.10.74 HOECHST AG D25 E11 = IT 1047-684

Phosphate ester- and alcohol-contg. cleaning compsns. - 30361X/17

FARH 01.08.75 HOECHST AG A94 D22 F09 (A11 A96) = DS 2559-606

Hydrophilic strip material coated with modified cellulose ether

FARH 27.07.76 HOECHST AG C03 D13 E35 = CS 7704-982 Treating microbial cellular mass with ammonia and alcohol solvent -08318A/05

FARH 05.02.77 HOECHST AG D21 E33 = DS 2704-850 Dissolving basic aluminium chloride cpds. in absolute ethanol -58958A/33

FARH 19.09.77 HOECHST AG D15 E19 M14 = CS 7806-030 Anticorrosion compsn. for ferrous metals - 22078B/12 FARH 30.03.79 HOECHST AG A97 D12 = FI 8000-944

Sausage-packaging hollow rod assembly - 73745C/42

FARH 24.04.79 HOECHST AG B02 D16 (B04) = GB 2049-681 Cephalosporin derivs. with chromophore substit. at 3-post 79272C/45

*FARH 08.06.79 HOECHST AG A97 D12 *DE 2923-187 Protective netting for hollow sausage skin rods - 00045D/01

*FARH 08.06.79 HOECHST AG A97 D12 *DE 2923-188

Sausage skin support sleeve - 00046D/01

*FARH 09.06.79 HOECHST AG A14 D22 F01 *DE 2923-430 Insoluble swellable crosslinked etherified polyvinyl deriv. pro

FAZE- 03.04.79 OY FAZER KAB D11 = F17901-101 Transporter for biscuit icing process - C/47

FERR- 01.06.79 FERROKEMIA IPARI SZ A96 B03 D21 E13 = GB 2049-4 Compsn. used as cosmetic prod. e.g. shampoo, ointment - 56909C/3 FIAT 11.09.75 FIAT SPA A88 D15 J01 (A14) = IT 1047-997

Vinyl chloride-vinyl alcohol membranes for reverse osmosis - 42110

FIND- 23.11.67 PROD FINDUS SA D13 = IT 1047-875

Inhibition of microbial reduction of nitrates to nitrites - 15503R/10 *FIPO 14.06.79 FISCHER & PORTER LTD D15 E36 *DE 3022-273 Chlorine di:oxide generator giving chlorine-free aq. soln. - 00299D/0

FIRM 07.05.69 FIRMENICH SA B05 C03 D23 E15 (D13) = IT 1047-883 Unsaturated cycloaliphatic ketones - 82738R/44

FISK- 03.05.79 FISKERITEK FORSKNIN D12 = DK 8001-909 Removal of fat, intestines etc. from fish - 84727C/48

FISK- 03.05.79 FISKERITEK FORSKNIN D12 = NO 7901-481 Removal of fat, intestines etc. from fish - 84727C/48 * FLUI- 15.06.73 FLUID POWER RES INC D15 J01 *US 4238-325

Ion exchange appts. for treating liq. - 00597D/01 *FORM/ 29.05.79 FORMAN L C03 D13 *CS 7903-692

Whey-based feedstuff prodn. - D/01 FORT- 13.06.79 VEB KOMB FORTSCHRIT C03 D13 = DE 3021-405 Dry forage prepn. - 80810C/46

FRAU 28.12.77 FRAUNHOFER-GES FORD ANGE D15 J01 = US 4238-59 Silicic acid hetero-polycondensate prodn. - 52664B/29 *FRAZ/ 19.07.79 FRAZIER S E D22 E13 *US 4238-483

Antimicrobial compsn. prodn. from natural flavanoid glycosid U0669D/01 FRNG 24.02.78 FRINGS H CO GMBH KG D16 J01 = DS 2808-022

Ultrafiltration circuit with recirculation - 64839B/36 FUJI 12.06.68 FUJISAWA PHARM KK B04 D16 = DS 1929-355

Antibiotic thiopeptin antibacterial - 41511F/00 FUJI 31.08.71 FUJISAWA PHARM KK B04 D16 = IT 1047-896 Antibiotic fr-1923 - 16132U/12

*GAGG-11.06.79 GAGGENAU W HAUS & D11 *DE 2923-577 Air cooled flush fitting backing oven - 00069D/01

GALL- 20.04.72 GALLAHER LTD D18 = IT 1047-920 Synthetic smoking material - 47111V/25

GARU- 29.07.66 INST GARUNGS U GETR D16 #IT 1047-858 Suspensions clarification - 05809U/05 GBFO- 13.06.79 GBF GES BIOTECH FOR B04 D16 *DE 2924-006

Cultures of Myxococcus fulvus and its extracts - 00129D/01

*GENE 11.05.79 GENERAL ELECTRIC CO D22 L02 *US 4237-559 Bone implant formed of high and low density ceramics - 00464D/01 GENO 30.03.72 GENERAL FOODS CORP B05 D13 E19 = IT 1047-918 Dipetide salts - 62766U/42

*GENO 06.10.78 GENERAL FOODS CORP A11 D13 (A97) *US 4238-604

Acetylated crosslinked starch prepn. - 00728D/01
*GENO 15.06.79 GENERAL FOODS CORP D13 (D16) *US 4238-514

Puffed Nato rice prepn. - 00682D/01 *GETF- 21.04.79 GETFRESH FOODS LTD D13 *GB 2049-537 Formation of filled food products - 00360D/01

GIVA 05.12.73 GIVAUDAN L & CIE SA D23 E14 = DS 2457-550 1,1,3,4,4,6-Hexamethyl-1,2,3,4 tetrahydronaphthalene prodn. 01885W/01

GIZA- 09.05.79 GIZA SPA C04 D16 E17 H06 (D15) = GB 2049-457

Methane and agricultural fertiliser sludge prodn. - 67763C/39 GIZA- 09.05.79 GIZA SPA C04 D16 E17 H06 (D15) = NO 8001-364 Methane and fertiliser sludge produced from animal farm effluen 67764C/39

GIZA- 09.05.79 GIZA SPA C04 D16 E17 H06 (D15) = NO 8001-365 Methane and agricultural fertiliser sludge prodn. - 67763C/39

GLUS/ 20.04.79 GLUSCENKO N B05 D16 E19 #CS 7902-755

*GRAM-30.04.77 GRAMPEX PROTEIN LTD D12 *GB 1581-859
Appts. for continuous drying of press cake - 70037104

*GROS/ 22.10.79 GROSSMANN J D18 *CS 7907-134 Shaving stand laying rollers drive - D/01

GE- 07.04.79 HAGER & ELSASSER GM D15 = GB 2049-470 Power station water saving system - 73795C/42 ME/ 15.06.79 HAMELA P D11 *CS 7904-138 Dietetic bakery prods. - D/01 NO- 16.06.77 HANORAH ITALIANA SP D21 = GB 1582-179 Cosmetic complex for face or hair treatment - 02159B/02 NU/15.06.79 HANULA P D13 *CS 7904-139 Growth medium based on beer malt -D/01 UN 15.03.78 HAUNI-WERKE KORBER KG D18 J01 = US 4237-778 Compact filter rod for cigarettes - 71893B/40 YB 20.03.79 HAYASHIBARA SEIBUTS D16 (D17) = GB 2049-701 Fixed enzyme for prepn. of prod. from starch - 79863C/45 JD/ 22.02.79 HEJDA Z D15 E14 *CS 7901-169 Purificn. of effluent from nitrobenzene or nitrotoluene prodn. -NK 01.10.73 HENKEL KG AUF AKTIEN D25 E12 = DS 2349-293 Cleansers and detergents with disinfectant activity - 26084W/16 NK 27.07.76 HENKEL KG AUF AKTIEN A97 D25 E16 (A25 D16) = GB 82-200 Conc. liquid cleaning compsns. for washing contg. enzymes - 08288A/05 NK 01.09.76 HENKEL KG AUF AKTIEN A96 B05 D21 E19 (A25) = GB 82-028 Solns. of fat-soluble perfume oils or pharmaceuticals - 18009A/10 NK 16.07.77 HENKEL KG AUF AKTIEN D18 E33 = CS 7804-664 Additives for defatting and tanning in leather mfr. - 10088B/06 NK 10.12.77 HENKEL KG AUF AKTIEN C03 D13 = CS 7808-160 Animal feedstuffs giving high feed utilisation and wt. gain - 44050B/24 RE/ 22.10.79 HEREIT F D15 *CS 7907-158

Device for filtering waste water - 00450D/01 OUD 10.10.74 HOUDAILLE INDS INC D15 = IT 1047-612 Waste water disinfected by injecting chlorine - 24462X/14 WA-21.02.78 HOWARD MACH LTD D14 *GB 2049-455 Mixing and dispensing appts. for animal feed - 00348D/01 MIN-08.11.78 H&RINC D22 *US 4237-912 Cleaning system for inhalation therapy etc. tubes - 00504D/01 18/19.07.77 HRISTOV O B04 D16 #CS 7704-805 Live attenuated mumps vaccine - 76561A/43 IBL/ 28.02.80 HYBLER J D17 *CS 8001-352 Sugar mixing and dissolving appts. - D/01 LM/ 24.08.79 HYLMAR B C03 D13 *CS 7905-751 Animal feedstuffs - D/01 LM/ 24.08.79 HYLMAR B C03 D13 *CS 7905-752

Farm animals feedstuff prodn. - D/01

Impurities elimination during water processing - D/01
TT 09.03.77 HITACHI CONSTRUCT MACH D15 *J8 0047-926

L 09.08.77 IMPERIAL CHEM INDS LTD D16 (D13) = US 4237-693 Industrial aerobic fermentation - 11897B/07 1-25.08.75 INDUST FILTER CORP A97 D15 J01 M25 *US 4238-329 Recovery of heavy metals from water contg. fluctuating concn. 00600D/01 £ 01.08.72 INT FLAVORS & FRAGR INC D13 E14 (D18 D21 D25 E13) = IT

Acetals of 2- and 3-phenyl pentenals - 11334V/07 IL 08.11.72 INT FLAVORS & FRAGR INC D13 = IT 1047-928 dible food seasoning with meat flavour - 38278V/21 L 20.10.78 INT FLAVORS & FRAGR INC B05 D13 E19 (D18 D21 D23) *US

Aroma additives for solid or liq. detergents - 00610D/01 2G 07.06.77 INSTNAT RECHAGRON C03 D13 (D16) = US 4238-567 Nutritional protein prodn. from Trichoderma album - 89622A/50 C 21.07.76 INST CERC CHIMICO-FARMAC D22 E24 *RO --67-432 D/01 Erystal violet prepn. - D/01 E 02.10.74 INST NAT RECH CHIMIQUE A88 D15 J01 (A14) = IT 1047-

emi-permeable membranes of crosslinked, opt. substd. polyacrylamide :28692X/16 € 02.10.74 INST NAT RECH CHIMIQUE A88 D15 J01 (A14) = IT 1047-

emi-permeable membranes from methylolated, polyacrylamide -

8693X/16 F 10.05.68 INST FRANCAIS DU PETROLE B04 C03 D16 = IT 1047-877 P 12.05.77 INST PASTEUR D22 = GB 1581-905 depour disinfection using antiseptic soln., esp. of respirators - 67131A/3817.04.71 IST BIOCHEMICO ITALIANO B05 D16 = IT 1047-890

etracycline prepn by fermentation - 55386T/35 OB.05.79 ITALFARMACO B04 D16 = NO 8001-248 reactor for enzyme reactions - 65987C/38 JI-06.04.78 INT MULTIFOODS CORP D11 *US 4237-763 licing muffins using rotating knife device - 00481D/01 2-03.05.79 INTOCTROOI MAATSC D14 S02 T06 *US 4238-432 coller and ring extrusion press - 00650D/01

J/ 12.07.79 JIRUF C03 D13 *CS 7904-881 don-traditional materials conversion into feedstuffs - D/01

JOHJ 15.07.69 JOHNSON & JOHNSON A25 D22 (A12 A15 A96) = DS 2034-761

Self-adhesive plaster - 07613S/04 JOHJ 18.04.79 JOHNSON & JOHNSON A96 D22 #DE 2915-627

Surgical drape with liquid collection bag - 75107B/41
* JOHN- 30.04.79 JOHNSON PRODUCTS CO A96 D21 *US 4237-910 Stable, alkaline, no-base hair relaxer compsns. - 00503D/01 JOHS 22.01.79 JOHNSON S C & SONS INC D25 E36 = US 4238-192

Stable aq. hydrogen peroxide bleach compsn. - 57293C/33

* JUDE- 31.01.74 OFIC JUDETEAN GOSPO D15 E36 J04 S03 *RO --67-893 Cyanide meter for water - D/01

KACH- 28.02.77 KACHIKU EISEI SHIKE B04 C03 D16 = J8 0047-612 Live vaccine prepn. for treating bordetella bronchiseptica infections -

KAIH- 23.04.75 KAIHATSU KAGAKU KK A11 D23 (A97) = J8 0047-070

Starch deriv. as gelling agent for fat - 93344X/50

KALA/ 21.06.77 KALAL J A96 B04 D22 J01 *CS 7704-091

Haemo-compatible sorbents - D/01 KALT- 24.04.79 KALTENBACH & VOIGT D22 = GB 2049-428

Sprayable medical or dental instrument sterilising mixt, - 79057C/45 * KANS- 20.04.79 KANSAS STATE UNIV R A97 D22 *US 4238-477

Homogeneous resin-poly-iodide disinfectant - 00667D/01 KAOS 25.02.75 KAO SOAP KK C03 D22 E16 = J8 0047-603

Germicidal, disinfectant, antiseptic compsn - 66785X/36 KAO\$ 20.04.79 KAO SOAP KK D25 = GB 2049-723

High-foaming skin non-irritant alkaline cleansing compsns. - 81132C/46 KAOS 09.05.79 KAO SOAP KK A96 D22 (A35) *GB 2049-553

Water absorbent embossed laminated sheet - 00362D/01 KARL/ 07.10.74 KARLER A B04 D16 = IT 1047-683

Mucoprotein prodn. - 69419X/37

KARL/ 13.10.75 KARLSON EL D15 J01 #IT 1047-783 Particulate material removal from fluid stream - 72326W/43

KEMP/ 27.02.71 KEMPER K D11 = DS 2109-363 Conveyor control system - 60023T/38
KENT/ 03.05.79 KENT F M J D23 = DK 8001-892

Multipart decorative candle - 83071C/47
KIBU- 18.03.77 KIBUN KK D12 = J8 0047-872
Prepn. of fish paste food - 82885A/46

* KING- 16.05.79 KINGSDOWN MED CONSU D22 *GB 2049-620 Cover bag to enclose ostomy bag - 00368D/01

KIRI 27.03.79 KIRIN BREWERY KK D16 = GB 2049-426 Rapid hop curing - 73850C/42 * KOLL/ 15.06.79 KOLLROSS G D12 *DE 2924-059

Automatic sausage skin gathering machine - 00134D/01 *KOMO/ 16.01.80 KOMORA L D15 E19 *CS 8000-317

Elimination of organic acids from aq. solns. - D/01 KOPA- 27.03.76 KOPALNIA WEGLA KAMI D15 = DS 2711-528

Continuous dewatering of flocculated sludge with screen drum -72776Y/41

*KRAM/ 10.12.79 KRAMAR A D13 *CS 7908-575 Protein biomass prodn. from beech bark hydrolysates -KREU- 24.10.74 KREUCOHA AG D13 = US 4238-516

Tempering masses containing cocoa butter, such as chocolate -34167X/19

*KUCE/ 25.10.79 KUCERA J D16 *CS 7907-255 Glucoso-oxidase sepn. - D/01

KULH/ 12.12.78 KULHANEK M D17 E13 *CS 7808-245 D-glucose and D-fructose prepn. -D/01

KURE 03.08.76 KUREHA KAGAKU KOGYO B04 D16 (D13 D17) = CS 7705-091

Cultivating Basidiomycetes - 10256A/06

*KURE 12.06.79 KUREHA KAGAKU KOGYO A11 D12 F01 (A97) *DE 3021-780

Shaped collagen materials - 00280D/01

12.06.79 KUREHA KAGAKU KOGYO A11 D12 F01 (A97) *DE 3021-781

Shaped collagen material prepn. - 00281D/01 *KURT/ 15.06.79 KURTZ O D16 *DE 2924-175

Beer brewing from hops, malt and water - 00153D/01

*KUZM/ 29.10.79 KUZMOVA E D16 *CS 7907-319 Bioproteins prepn. - D/01

LAFO 28.04.78 LAB LAFON L A97 B07 D13 E24 #US 4238-518 Prepn. of stable red dyestuff from beetroot - 49152Y/28

LANG/ 03.11.78 LANGEN JC D12 = US 4237-581

Compression of meat in double chambered apparatus - 36898C/21 *LARI/ 27.11.78 LARISCH V D15 H03 *CS 7807-753

Appts. eliminating oily cpds. from fluctuating surfaces - LARS/ 08.05.79 LARSSON V K A96 D21 = GB 2049-424

Skin-protective coating formation system - 84765C/48 *LEOP/ 24.10.79 LEOPOLD J D16 *CS 7907-183

Industrial strain of Aspergillus niger van Tieghem CCM-F-663 - D/01 *LEOP/ 24.10.79 LEOPOLD J D16 *CS 7907-203

Molasses substrate for citric fermentation - D/01 LEPE 07.04.79 GRUPPO LEPETIT SPA B04 D16 = FI 8000-881 Antibiotic A-16686 obtd. by culturing Actinoplanes strain - 73479C/42 LERE = 21.03.79 LENGD REFRIG INST D15 = FI 8000-816

Treating sewage on board ship - 73964C/42

*LIBU/ 25.06.79 LIBURDY R P D16 J01 S03 X25 *US 4238-327 Liq. gel chromatography for sepg. molecules - 00599D/01 *LIFE-21.02.79 LIFE SAVERS INC D13 *US 4238-510

Sugarless coating for candy, chewing gum and pills - 00681D/01

*LIFE- 01.08.79 LIFE SAVERS INC A96 B07 D13 *US 4238-475 Chewing gum contg. insoluble, particulate pharmaceuticals - 00666D/01 LINM 24.04.79 LINDE AG D16 E17 J01 = BR 8002-484

Purificn, or sepn, of gases by pressure changes and adsorption 81007C/46

*LINM 05.06.79 LINDE AG D15 *DE 2922-719 Biological waste water purificn. - 00013D/01 *LINM 05.06.79 LINDE AG D15 *DE 2922-761

Two/step biological waste water purificn. - 00015D/01

*LINM 05.06.79 LINDE AG D15 *DE 2922-828 Biological waste water purificn. - 00021D/01 LOTT 17.04.78 LOTTE KK D13 E23 = J8 0047-866

Blue chewing gum, coloured by phycocyanine - 88316B/49

*LUKK/ 09.04.79 LUKKARINEN T D15 H03 *F17901-165 Oil sepn. from water surface - D/01

MACK/ 08.11.68 MACKRLES D15 = IT 1047-880 Continuous water purification - 33823R/19

MALA-16.11.77 MALACO AG D22 E19 H01 M14 (H03) = US 4238-350

Corrosion inhibiting compsn. contg. amino carboxylic acid - 44493B/24 * MATE/ 03.09.79 MATELOVA V B04 D16 *CS 7905-980 Penicillium chrysogenum CCM F-648 strain -

*MATE/ 21.12.79 MATELOVA V B04 D16 *CS 7909-206 Elimination of toxic effect of iron in penicillin biosynthesis -

*MATJ 16.06.76 MATSUSHITA REIKI KK D15 *J8 0047-931 Device for carbonated drinking water prodn. - 00452D/01

MATS/ 24.02.78 MATSUBARA M B04 D13 = US 4238-479 Foodstuff with strengthening effect - 66547B/37

MATT- 13.07.76 MATTHEY RUSTENBURG D25 M28 X25 = GB 1582-130

Recovering traces of platinum gp. metals from waste solns. - 06746A/04 *MAYE/ 15.03.79 MAYER J D16 (D15) *CS 7901-723 Rocks filtration ability evaluation - D/01

Rocks filtration ability evaluation - D/01 MCDO-15.10.74 MCDONALDS CORP D12 = IT 1047-794

Marinading chicken portions quickly before frying - 24483X/14 MENG/ 20.03.76 MENGE W D11 = US 4238-512

Storable acid pre-doughs for baking bread etc. - 71988Y/40 MERI 19.04.76 MERCK & CO INC B02 C02 D16 = CS 7702-465 Macrolide parasiticidal and pesticidal cpds. - 78836Y/44

*MERK/ 13.06.79 MERKLA C03 D13 *DE 2924-002

Bird feed block e.g. bar or rod - 00128D/01 MEYN/00.00 80 MEYN P D12 S02 #GB 2049-963

Weighing and grading fowls hanging from shackles - 02098C/02 MEZO-12.02.79 MEZOGAZDASAGITERMELOSZO C03 D13 #CS 7900-937 Feedstuff, esp. feed concentrate prodn. - 60623C/35

*MICA/ 11.01 79 MICAN P D13 *CS 7900-258 Biologically conserving bulky feeds -D/01

* MINN 14.10.77 MINNESOTA MINING CO A96 D22 *US 4237-889 Diaper fastener with textured foil backing - 00501D/01 MIRA- 23.03.79 MIRA LANZA SPA D25 E19 = FI 8000-526

Washing powder compsn. of low phosphate content - 55257C/32 * MITO 29.03.77 MITSUBISHI HEAVY IND KK D15 *J8 0047-927

Filter press for treating waste water - 00451D/01
*MITQ 21.00.74 MITSUBISHI ELECTRIC CORP D15 *J8 0047-923 Appts. for agglomerating insol. material in waste water - 00447D/01

MIZA 18.11.75 MIZUSAWA KAGAKU KK A97 D25 = US 4238-346 Alkali alumino-silicate zeolite detergent builder - 38465Y/22

MONS 19.07 66 MONSANTO CO D13 = IT 1047-862 Sweetening agents contng maize starch - 63957R/36
MONS 19.07.66 MONSANTO CO B04 D13 = IT 1047-863

Low calorie sweetener contg a waxy starch hydrolysate - 30711F/00

MORG 05.12.77 MORINAGA MILK KK B04 D16 #GB 1582-068 Bifidus powder contg. lactulose - 09345A/05

MULL/ 24.03.76 MULLER H C03 D13 = US 4237-820 Feeding artificially grown fish - 72772Y/41

NATT 20.05.68 NAT STARCH & CHEM CORP DI1 E19 #IT 1047-874

Bakery product additives - 04168R/04

NATT 14.04.72 NAT STARCH & CHEM CORP A96 D25 (A14) = IT 1047-919 Hair lacquers - 66534U/44

NATT 12.03.79 NAT STARCH & CHEM CORP D13 = GB 2049-388 Pulverising fat-contg. foodstuff to free-flowing powder - 67991C/39 NATY 18.10.74 NABISCO INC D13 = IT 1047-843

Textuised vegetable proteinaceous flakes - 34323X/19

*NEJE/ 18.09.79 NEJEDLY Z B02 D16 K08 S03 *CS 7906-286 Enzyme synthesis of radioactive adenosine - D/01 27.04.77 SOC PROD NESTLE SA D13 = GB 1581-900

Milk food used esp. for premature infants - 76250A/43

NEST 17.05.79 SOC PROD NESTLE SA A97 D13 E13 = GB 2049 Caffeine removal from oil solns. - 86634C/49

NHYD 19.03.74 NORSK HYDRO A/S C03 D13 E33 = RO --65-Clacium phosphates of animal feed quality - 52431W/32

NIPC 26.12.75 NIPPON CHEM IND KK D15 E36 J01 = J8 0047-Treatment of exhaust gas desulphurised waste liquor - 58451

NIPK 25.05.73 NIPPON KAYAKU KK D23 *J8 0047-078

Inhibiting smell of oil or fat during storage - 00421D/01 *NIPQ 04.06.79 DAI NIPPON INSATSU D13 *DE 3008-313 Semi-processed, room temp. packed storable chip prepn. - 00 NIRO 25.09.70 NIRO ATOMIZER A/S D13 = DS 2147-153

Treatment of milk powder with lecithin - 23267T/15 NISB 16.11.77 JAPAN TOBACCO & SALT PUB D22 = J8 0047-8

Sterilising plant growth medium by heating - 53266B/29 *NISS 19.09.72 NISSHIN FLOUR MILL KK B04 C03 D16 *J8 0047-

Preventing infectious atrophic rhinitis of young pig - 00418D/0 NISW 08.01.74 NISSHIN OIL MILLS KK B07 D21 E17 = J8 0047 Emulsifying synthetic oils prepn. - 76564W/46

NMHB 04.05.79 NORDISCHER MASCHINE D12 #DK 7901-831 Fish filleting machine - 69556C/39

*NOVA/12.09.79 NOVAK V D15 *CS 7906-173 Rapid water filters attachment - D/01

NOVO 11.09.72 NOVO TERAPEUT LAB A/S A96 B04 D16 = IT 10 Solid phase enzyme prepns - 21039V/12

A96 B04 D16 = IT 10 NOVO 11.09.72 NOVO TERAPEUT LAB A/S Solid phase enzyme prepns - 21039V/12

NOVO 09.04.79 NOVO INDUSTRI A/S D16 (D13) = FI 8001-029 De-stabilisation of microbial rennin - 75331C/43

NOVO 09.04.79 NOVO INDUSTRI A/S D16 (D13) De-stabilisation of microbial rennin - 75330C/43 = FI 8001-072

*OCCI 17.05.78 OCCIDENTAL RES CORP D15 *US 4238-296 Desalination by flash evaporation - 00585D/01 OILD- 04.05.76 OIL-DRI CORP AMERIC C03 D15 (D22) = GB 1582

Gypsum granules for absorption on liquids - 63110Y/36 *OKAZ- 19.07.76 OKAZAKI KOGYO KK D15 *J8 0047-924

Muddy water treating appts. - 00448D/01

*ONDE/ 10.12.79 ONDERKA Z D18 *CS 7908-569
Flat articles drying installation - D/01
OREA 26.04.79 L'OREAL SA D21 E24 = BR 8002-575

Substd. meta-phenylene di:amine cpds. - 78918C/45

OREA 26.04.79 L'OREAL SA D21 E24 = GB 2049-684 Substd. meta-phenylene di:amine cpds. - 78918C/45

ORIY 25.10.76 ORIENTAL YEAST KK B02 D16 = J8 0047-878 Nicotinamide adenine di:nucleotide redn. with alcohol deh. 44949A/25

*ORLI/ 22.08.78 ORLITA A D18 *CS 7805-475

Pelt treatment of pigskin prodn. - D/01
ORTH 20.03.79 ORTHO PHARM CORP B04 D16 S03 (S05) = F1 800 Mono: clonal antibody of IGG class - 77465C/44

OSAG 15.04.78 OSAKA GAS KK D15 = GB 1581-989 Activated sludge treatment of sewage - 79282B/44

*PACA/ 22.09.79 PACA J D16 J04 *CS 7906-407

Gas distributor for mass exchangers and fermentation appts.

*PALE/ 13.09.79 PALECKOVA F D16 *CS 7906-192 Brevibacterium sp AO 6/79 strain - D/01 *PARR/ 17.05.79 PARR TK A92 D11 *GB 2049-604

Ready rolled pastry package - 00365D/01 *PART-13.01.77 INTR PARTIZANUL D18 X25 *RO --68-324 Safety control for animal skin processing -D/01

* PASE 13.06.79 PASSAVANTW MICHELBACHER D15 J04 S03 *DE

Determn. of light substances in waste water - 00125D/01 PEDC- 22.02.78 PEDCO PROTEINS & EN A97 D12 = US 4238-515 Self-binding fibrous gluten for meat-like prods. - 65019B/36

*PENI- 18.09.79 PENICILLIN ASSAYS B02 D13 *US 4238-521 Penicillin removal from contaminated milk - 00685D/01

PERS 05.02.79 PERSONAL PRODUCTS CO A96 D22 = US 4237-591 Sanitary pad contg. perfume avoiding perfume migration - 86106.

* PETE/ 09.02.79 PETERS M F D15 E17 H06 *US 4238-337 Appts. for producing methane gas by fermenting organic v

00606D/01 PETE/ 23.03.79 PETERSON A C D15 = GB 2049-461

Sedimentation device for clarifying waste water - 09065C/05 PEUS/ 29.01.79 PEUSER M F X D15 J01 M11 = BR 7900-702 Effluent treatment of electroplating baths - 43314C/25

PFIZ 23.12.71 PFIZER CORP D12E13 = J8 0047-867

Isocitric acid lactone - anhydride - 43040U/31
PFIZ 07.01.74 PFIZER INC 802 C02 D15 = IT 1047-758

Antibacterial cyano-2-aminocarbonyl quinoxaline 47688W/29

* PFIZ 29.10.79 PFIZER INC B05 D13 E14 (E16) *US 4238-392 Purificn. of L-aspartyl-L-phenylalanine alkyl ester sweete 00637D/01

EL-22.11.75 INST PIELARIE INCALTAMIN A82 D18 *RO --67-739 Coating pigskin holes - D/01

Coating pigskin holes - D/01

T-02.12.70 PITTMANN MOORE CORP B04 C03 D16 = J8 0047-012 | 1.02.12.70 | 1.02.12.70 | 1.02.12.70 | 1.02.12.70 | 1.02.12.70 | 1.02.12.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.70 | 1.02.7 Feedstuffs lowering chlorinated pesticides conc. in farm animals OLI-10.02.75 INST POLI IASI D15 *RO --66-936

Biological waste water purification -Biological Wash State | San Heart State | San He Othopaedic cast or splint, or bandage for applying cast - 64989B/36 ROC 30.07.70 PROCTER & GAMBLE CO D21 E33 = IT 1047-910

D/01

Anti-perspiration aerosols - 10391T/07 ANII-POISON 12 PROCTER & GAMBLE CO D13 E19 = IT 1047-924

Mixed polyol complete esters prodn - 13377V/08

MIXED DOLYGO COMPLET & GAMBLE CO D13 E19 = IT 1047-925 Mixed polyol complete esters prodn - 13378V/08

MIXED DOTO PROCTER & GAMBLE CO D25 E37 = IT 1047-609 Low phosphate dry granular washing agents - 29463X/16

PROC 27.08.76 PROCTER & GAMBLE CO D25 E19 F06 = GB 1582-039

Dry stable bleaching compsn. - 15919A/09 PROC 06.03.78 PROCTER & GAMBLE CO A97 D25 E19 = US 4238-373 Prodn. of intimate mixt. of N-based cationic surfactant - 68458B/38 PROC 28.04.78 PROCTER & GAMBLE CO A97 D12 E19 = GB 2049-390

Liq. crystalline food additive emulsion - 84541B/47 ROT = 15.02.71 PROTEINS BIOSYNTH B04 C03 D16 H04 #IT 1047-886 Microbiological petroleum distillate de waxing - 23028T/15 ROT = 31.03.71 PROTEINS BIOSYNTH C03 D16 H04 #IT 1047-888

Alubumin-fat compsns prepn - 39283T/25

ALS 15.12.65 RALSTON PURINA CO D13 E36 (E34) = IT 1047-859 Artificial meat prods - 37991U/27

AYB 30.08.79 RAYBESTOS-MANHATTAN INC D23 F09 X25 *US 4238-304 Recovery of tall oil from acidified black liquor soap - 00588D/01

ECK 28.10.72 RECKITT & COLMAN PROD D21 = IT 1047-926

Shampoo compsn - 17391V/10 ENF/11.06.79 RENFTLE H D21 *DE 2923-615

Delaying flavouring and aromatiser activity in paste - 00074D/01 ETO 11.04.79 RJR ARCHER INC A97 D18 G03 (A81) = FI 8001-030 Tipping paper for air Ventilated cigarette - 79202C/45

HON 17.04.72 USINES CHIM RHONE P D23 E14 (D13) = IT 1047-899 Ortho-alkoxy-para-allylphenol prodn - 67801U/45

HON 24.01.77 RHONE-POULENC INDUSTRIES A97 D13 E23 (A12 D16) J8 0047-060

Purificn. of aq. anthocyanin solns. - 55429A/31 CT 19.08.76 RICHTER GEDEON VEGY CO3 D13 E19 = CS 7705-447

Blemish-preventing compsn. for apples, esp. with red skins - 14040A/08 CT 21.03.79 RICHTER GEDEON VEGY D12 (D15) = GB 2049-648 Removal of solids from waste liquids e.g. from slaughter houses -72785C/41

HA/ 20.06.78 RIHACEK L D15 *CS 7804-052

Waste waters elimination - D/01

W 16.04.79 RIKEN VITAMIN OIL KK D13 = GB 2049-720

Emulsifier prepn. for improving starch-contg. food quality - 79089C/45 PP/19.11.79 RIPPA F D15 J03 *CS 7907-864

Emulsion electro-coagulation and flocculation breaking appts. ED-16.08.78 ROEDIGER W CO GMBH D15 = DS 2835-709

Sewage flotation system - 14933C/09

HR/14.04.77 ROHRER E D15 = GB 1581-985 Water and waste water purification - 84363A/47

QF 16.03.79 ROQUETTE FRERES SA B05 D13 E17 = FI 8000-807

Sorbital compressed products e.g. tablets - 70061C/40 QF 15.06.79 ROQUETTE FRERES SA A97 D13 *DE 3021-775

Stable sugarless chewing-gum not causing dental caries - 00278D/01 RE 24.06.76 RORER W HINC A96 D21 #FI 7901-085

Aq. pharmaceutical detergent compsn. - 29676B/15

185/16.03.79 ROSSI J C03 D13 = FI 7900-891
Neutralisation of alkaline lignocellulose-contg. material - 70028C/40

E-15.06.79 ROTELMANN & CO D14 *DE 2924-098

call valve for perishable food - 00143D/01

13 03.04.79 SAGAMI RES CENTRE B05 D16 = GB 2049-703 Deptide prodn. in presence of immobilised protease - 73469C/42 4/ 08.06.79 SALA F D13 T05 = DE 3021-582 dicator of transitory defrosting of frozen food etc. - 73516C/42 1-26.09.77 SANILOGICAL CORP D15 *US 4238-338 Y 11.05.79 SANKYO KK B03 D16 = GB 2049-664 Onacoline K prepd. by cultivation of Monascus strains - 69578C/40 k 08.08.77 SANYO KOKUSAKU PULP B03 D13 E13 = J8 0047-871

rificn, of Stevia sweetening agents - 28866B/15
19.12.78 SCHERING AG BOI D16 = CS 7900-568 egnane derivs. microbiological 11-beta-hydroxylation - 56512B/31 SCHD 19.12.78 SCHERING AG B01 D16 = CS 8000-372 17-Alpha-hydroxy-corticoid derivs, substd. by acetal or thio:acetal -58435B/32

SCHD 19.12.78 SCHERING AG B01 D16 = CS 8000-373 17-Alpha-hydroxy-corticoid derivs. substd. by acetal or thio:acetal 58435B/32

SCHD 19.12.78 SCHERING AG B01 D16 = CS 8000-374 17-Alpha-hydroxy-corticoid derivs. substd. by acetal or thio:acetal -58435B/32

SCHD 19.12.78 SCHERING AG B01 D16 = CS 8000-375 17-Alpha-hydroxy-corticoid derivs. substd. by acetal or thio:acetal -58435B/32

SCHD 19.12.78 SCHERING AG B01 D16 = CS 8000-376 17-Alpha-hydroxy-corticoid derivs. substd. by acetal or thio:acetal -58435B/32

SCHU/ 17.08.77 SCHUBERT K D17 L02 = C\$ 7805-137

Plasticising ceramic masses with microbial polysaccharide - 89779A/50 SCHW- 22.12.77 SCHWEIZER L & CO GM D18 = CS 7808-631

Continuous leather drying press - 49248B/27 SCMZ 17.04.78 SCM CORP D23 = GB 1581-910

Hydrogenating crude glyceride oils using nickel catalyst - 31554B/17, *SCMZ 01.08.78 SCM CORP D13 *US 4238-520

Low fat spread esp. margarine substitute - 00684D/01 SEAR 01.06.79 SEARLE G D & CO B04 D16 = DE 3020-528 Plasmids useful as vectors for eucaryotic DNA - 88368C/50

SEAR 31.03.80 SEARLE G D & CO B04 D16 = GB 2049-702 Synthetic influenza gene prodn. - 73458C/42

SELW- 29.07.78 SELWIG & LANGE MASC D17 = GB 2049-724 Preliminary liming plant for raw sugar beet juice - 87781B/49 * SEPS- 15.06.79 SEP SOMYCEL SA D16 *DE 2924-344

Spore-less Basidiomycetes strains prepn. - 00180D/01 SHEL 30.11.76 SHELL INT RES MIJ BV D25 E19 = CS 7707-850 Refining surface active agent streams - 38473A/22

SHEL 30.11.76 SHELL INT RES MIJ BV D25 E12 = CS 7707-851 Sec. mono:alkyl sulphuric acid salts, useful detergents - 38493A/22

SHIS 29.07.76 SHISEIDO KK D21 = J8 0047-607 Make/up cosmetic prepn. - 26138A/14 SIEI 17.08.68 SIEMENS AG D15 = IT 1047-879

Recovering sweet water from seawater or brine by - 11629R/08 SIEI 01.02.78 SIEMENS AG D15 E19 J04 S03 (S05) = US 4238-297 Automatic determn. of organic substances in water - 40684B/22 SIFR 06.09.72 SOC FR SILICATES SPEC D21 E36 G01 = IT 1047-945

Silicon exide pigments used for toothpaste prodn - 22262V/12 *SIMP-11.12.78 SIMPLOT J R CO D13 *US 4238-517

Frozen fried chips which can be heated in oven or toaster - 00683D/01
*SOKO/ 26.02.79 SOKOL D D22 *CS 7901-301
Skin disinfectant - D/01

SPIE/ 18.04.77 ST-PIERRE R D13 = GB 1582-113 Appts. for mfr. of yoghurt, esp. in the home - 72762A/41 * SPIL/ 25.01.79 SPILKA V D15 *CS 7900-555

Aerobic processing of pig farm waste -D/01

SPOF 16.05.64 SPOFA SPOJENE FARM NP B04 D22 = IT 1047-856 Prodn of collagen foam - 31865F/00

STAH/ 27.03.79 STAHLER T D15 = FI 8000-919 Sewage aeration basin - 86444C/49

STAL 17.09.74 STALEY A E MFG CO A11 D13 (A97) = IT 1047-707 Hydroxypropylated crosslinked starch derivs - 24890X/14 STAM 19.09.74 STAMICARBON BY A91 D15 E13 J01 = IT 1047-545

Use of polymeric flocculating agent - 24428X/14 STAM 09.05.79 STAMICARBON BV A41 C04 D15 E16 = NO 8001-366

Purification of urea-contg. effluent water - 85611C/48 *STAR- 27.11.78 STARR INC D14 *US 4237-782

Vegetable washing scrubbing or peeling appts. - 00483D/01 STAU 18.12.78 STAUFFER CHEMICAL CO D13 = U\$ 4238-519

Egg albumen extender - 46668C/27 *STEM- 13.06.79 STEMMANN ZAHNTECH D21 L02 *DE 2923-862 Implant for anchoring magnetic holder in jaw bone - 00116D/01

* STII- 13.01.77 INST STIINT PROTECT MUNC D18 X25 *RO -- 68-324 Safety control for animal skin processing - D/01 STOJ/ 23.12.77 STOJKOVIC L B04 D16 = US 4238-478

Hetero-vaccine for treatment of trichomonas syndrome - 47144B/26 STRI 09.04.79 SRI INTERNATIONAL D16 (D17) = FI 8001-137

Cellulase prodn. by Thielavia terrestris cultivation - 75619C/43 SUME 17.07.75 SUMITOMO ELEC IND KK A88 D15 J01 L03 (A14 A85 A96

J03) = US 4238-571 Vinylidene fluoride an tetrafluoroethylene copolymer membranes -

08023Y/05 SUMO 14.10.71 SUMITOMO CHEMICAL KK C02 D16 = J8 0047-007

Pesticide compsns - 24737U/18 SUSO 28.01.74 SUOMEN SOKERI OY D17 E13 = C\$ 7500-492 Crystallisation of fructose from aq. soln. - 52764W/32

TABA/ 19.06.69 TABATA H D15 E37 = IT 1047-884 Pure water extraction from sea water - 49470S/30

*TAKE/ 04.07.77 TAKEUCHIM D13 *J8 0047-869 Storage stable brine compsn. - 00445D/01

*TAMC/ 17.09.79 TAMCHYNA J D16 J01 Large vol. rectification appts. - D/01 *CS 7906-243

*TANA 13.06.79 TANABE SEIYAKU CO L A97 D16 E17 *DE 3022-063

Conc. ethanol prepn. by sugar fermentation - 00290D/01 *TARA/ 22.09.79 TARANT J D13 *CS 7906-403 Non-alcoholic, non-fermented beer-like drink - D/0 TECN-03.10.75 TECNECO SPA D15 J01 = CS 7606-397

Sepn. of metallic mercury from solns. - 25588Y/15 TEIJ 08.06.76 TEIJIN KK D23 E14 (E19) = DS 2726-056

Occlusion complexes of meta-cyclophan with trans terpenoid cpds. -90553Y/51

TEMC- 28.04.76 TEMCA CHEM UNION GM A96 D22 (A14) = DS 2618-613 Open cell acetalised polyvinyl alcohol foam bandage - 81356Y/46

TENH/ 02.06.75 TENHUNEN LA C03 D13 = CS 7603-578 Handling mechanism for a succulent food bale - 61579X/33 *TENT/ 13.07.73 TENTATL B05 D21 *IT 1047-922

Topical compsn. eliminating skin blemishes -TERU- 28.03.79 TERUMO CORP D22 = GB 2049-471

Artificial organ esp. kidney, liver etc. - 56944C/33
TETR 07.10.76 TETRA PAK INT AB D22 = GB 1582-060
Sterilising objects, esp. tape for beverage, e.g. milk, packaging -29060A/16

TEXC 26.07.68 TEXACO BELGIUM SA C03 D16 = IT 1047-878 Yeast prodn - 06864R/05

* THIR- 22.11.75 13 DECEMBRIE INTR A82 D18 *RO --67-739 Coating pigskin holes - D/01

THOM 12.10.74 THOMAEKGMBH A97 D25 = IT 1047-535 Dye stain-removing handwashing paste - 32204X/18

*THOR-14.05.79 THORN CASCADE CO LT D15 *GB 2049-454 Device for domestic aerated beverage prepn. - 00347D/01

*TIDW-06.10.78 TIDWELL CONS D15 *US 4238-333 Separator for removing oil from waste water - 00602D/01 *TIRI/ 30.07.79 TIRINO A C A32 D22 (A96) *US 4238-189

Casting unitary tooth die and mounting pin - 00536D/01
TOAD- 31.08.77 TOA PENPA KOGYO KK D15 E36 J04 S03 = J8 0047-343 Removing sulphur ions from liq. sample e.g. river water - 341198/18

TORA 26.03.76 TORAY IND INC D13 E12 = J8 0047-623 Substd. cyclopentenone alkali metal salt prepn. - 80358Y/45 TORA 27.04.76 TORAY IND INC A91 D13 E16 = J8 0047-624

Metal removal from aminoacid prods. - 81494Y/46
TOWN 25.05.79 TOWNSEND ENG CO D12 = GB 2049-392

Injecting fluid esp. brine into meat and fish for curing - 69605C/40 TOYJ 03.04.79 TOYO SODA MFG KK B05 D16 = GB 2049-703

Di:peptide prodn. in presence of immobilised protease - 73469C/42 *TRUB/ 27.10.78 TRUBAC K D15 J01 *CS 7806-995

Complex processing of difficult to decompose emulsions -TRUM- 09.03.79 TRUMARK INC D12 (D16) = US 4238-513

Meat emulsion fermentation in dry or semi-dry sausage mfr. - 66440C/38 TSZE 05.08.77 TATABANYAI SZENBANYAK D15 #GB 1582-017

Purifying dung water from cattle stables - 57918Y/33 TURO- 16.03.79 TUROS-FOODPROCESS A D13 = FI 8000-776

Prepn. of crumb prods. - 71550C/40

UGIN 29.03.72 PROD CHIM UGINE KUH A96 D21 (A14) = IT 1047-939 Film-forming copolymer - for hair - 62177U/42

UGIN 24.04.79 PROD CHIM UGINE KUHLMANN D25 E33 = BR 8002-468

Semi-continuous prodn. of zeolite type-A - 77063C/44

UNIC 16.11.70 UNION CARBIDE CORP D15 = DE 2167-274

Ag effluent treatment - 33849T/21

UNIC 28.12.76 UNION CARBIDE CORP A96 D22 (A18 A23) = DS 2758-216 Material for orthopaedic casts prodn. - 48191A/27

UNIC 12.04.79 UNION CARBIDE CORP D12 #FI 7901-224

Shirred sausage casing - 61398B/33
* UNIL 29.06.71 LEVER BROTHERS CO A97 D25 E35 (E19) *US 4238-531

Additive compsns. for tumbler-dryers - 00692D/01 UNIL 14.07.76 UNILEVER NV D12 = GB 1582-137 Meat deboning process and machine - 04174A/03

UNIL 27.03.79 UNILEVER NV A96 D21 E19 = FI 8000-862

Aq. shampoo providing good conditioning effects - 83027C/47 UNIL 06.04.79 UNILEVER NV D25 E11 = FI 8001-003

Bleaching compsns. contg. peroxy cpd. and activator - 75321C/43 * UNTC 04.04.74 ECODYNE CORP A88 D15 J01 *US 4238-334

Removing impurities from liq. streams using filter bed - 00603D/01 UNTC 18.10.74 ECODYNE CORP D15 = IT 1047-830

Centre post water clarifier apparatus - 33793X/18 UNVO 02.10.74 UOPINC D22E17 = IT 1047-618

Solid perfumed compsns. with regulatable evapn. rates - 26320X/14 *UNVO 08.03.77 UOP INC D15 *US 4237-618

Mechanical dewatering of sludge - 00470D/01 UNVO 15.03.79 UOP INC D15 = GB 2049-460 Dewatering reclarification sludge - 68072C/39 *UNVO 29.05.79 UOPINC D17 *US 4238-243 Sepn. of components in aq. mixtures - 00563D/01

*UNVO 15.06.79 UOPINC A97 D17 J01 *DE 3022-008 Selective adsorption of components from an aq. soln. - 0028-UYCU- 27.03.76 UNIV MARII CURIE-SKLODOW D15 = DS 271 Continuous dewatering of flocculated sludge with screen

*UYDE- 15.06.77 UNIV OF DELAWARE D13 (D16) *US 4238-566 Milk xanthine oxidase-active enzyme concentrate - 00706D/ *UYST-17.06.76 UNIV OF STRATHCLYDE B04 D16 *GB 1581-83 Cultivation of filamentous fungi - 00326D/01

VENA- 22.03.79 VER NAHRUNGSMITTELI D11 = FI 8000-793 Ripening yeast for bread prod. - 70036C/40

*VERS/ 09.09.75 VERSINO C D15 *IT 1047-984 Aq. effluents purificn. appts. - D/01

72776Y/41

VIDR- 25.11.75 VIDRA INTR BLANARIE D23 = RO --66-047 Lanolin recovery from skin wash waters - 38406Y/22

*VIES-11.06.79 VIESSMANN WERKE KG D15 *DE 2923-576 Self cleaning filter, esp. for drinking water - 00068D/01

WADL 20.12.74 WADLEY RES INST BLOOD BK A96 D16 S03 S 1047-704

Mircobial pathogen isolation from blood sample - 07193X/04 WALD- 14.12.76 WALDNER H & CO GMBH D13 = DS 2656-659 Cheese press with rotary cage - 44284A/25

WARN 17.05.79 WARNER-LAMBERT CO A97 D13 #GB 2049-705 Prepn. of chewing gum base compsns. - 82842B/46 *WEIS/ 08.03.79 WEISSOVA V B04 D13 *CS 7901-567

Processing of inulin-contg. foods - D/01

WHIT/ 18.02.76 WHITE M JE A96 D21 = US 4237-911 Dental prod. for oral hygiene - 63306Y/36

* ZENK- 19.09.72 ZENKOKU NOGYO KUMIAI REN B04 C03 D16 *J

Preventing infectious atrophic rhinitis of young pig - 00418D/01

F		CH -521-298 T26	43164-T D	54165-U D				30711-F
_		CH -528-470 T50 CH -528-225 T50	NL 7116-512 T27 DE 2162-326 T29	BE -797-545 U37 DE 2215-212 U43	13377-V DE BE -803-399 V08	47111-V D ZA 7302-525 V25	IT 1032-330 B39 RO65-918 D01	FR 2289-132 X36 PT64-434 X41
11 F BD	400	GB 1305-621 U06 DE 2065-323 U14	FR 2118-105 T46 GB 1321-776 U26	J4 9006-101 V12	NL 7311-119 V09 DE 2340-324 V09	J4 9085-300 V42 US 3943-941 X13		ZA 7506-014 Y19
8 1176-240	Q01	DE 2065-322 U15 DE 2065-324 U15	CH -548-740 V26 DS 2162-326 V50	GB 1377-471 V51 AT 7302-798 W15	FR 2195-614 V19 US 3808-245 V19	CA -994-200 X33	52764-W DE DE 2502-558 W32	CH -593-030 A01 GB 1527 735 A41
1047-863		DD96-077 U20	CA -970-212 W29	DS 2215-212 Y46 US 4208-184 C27+	J4 9132-010 W08	CH -583-005 Y02 US 4044-777 Y36	NL 7417-006 W33 SE 7500-717 W38	IT 1047-721 DO1
BOS F BD		CH -536-603 U29 CH -536-604 U29	J7 5022-102 W34 NL -157-782 A39	IT 1045-828 C29	GB 1408-973 W41 US RE28-728 X11	IT 1047-920 D01	J5 0105-842 W42 DK 7500-248 W44	×
B 1056-007	T44	CH -536-834 U29	IT 1047-892 D01	J8 0047-080 D01	CA 1020-571 Y47 IT 1047-924 D01	59392-V BCD	FI 7500-158 W44	
1047 856	D01	CH -537-452 U35 CH -537-352 U35	46944-T BCD	62177-U AD DE 2314-659 U42		NL 7401-311 V33 BE -810-416 V35	FR 2259-151 W46 ZA 7500-090 X13	07193-X AD US 3932-222 X04
511 F BD	000	CH -539-682 U44 US 3928-456 X01+	J4 7011-597 T29 GB 1323-842 U29	BE -797-472 U42	13378-V DE BE -803-400 V08	DE 2404-958 V35 FI 7400-283 V45	PT63-215 X19 GB 1456-260 X48	DE 2537-013 X27 BR 7504-345 X30
1929.355	K20	US 3931-326 X03+	CA -954-792 V40	NL 7303-921 U42 FR 2178-347 V02	NL 7311-121 V09 FR 2195-615 V19	FR 2215-943 V48 PT61-245 W08	AT 7500-570 A13	FR 2294-745 X44
1 0026-718 H .515-327	R34 T03	DS 2022-216 X28+ US 3975-310 X35+	CA -999-523 X48 J8 0047-012 D01	GB 1432-012 X16 IT 1047-939 D01	US 3809-712 V20 DE 2340-235 V29	AT 7400-768 W23	CH -596-318 A15 CA 1030-533 A20	GB 1482-862 Y33 CA 1028-284 A14
- 1265-562	T09	DS 2065-322 B30 + DS 2065-324 B31 +	55386-T BD	62766-U BDE	J4 9132-011 W08	DD -112-441 W24 ZA 7400-464 W37	IT 1026-412 A49 HU T016-717 B29	IT 1047-704 D01
\$ 3761-587 A 960-167	MANO	J8 0003-328 C08+ US 4187-863 C08+	GB 1286-929 T35	NL 7304-314 U42+	GB 1408-974 W41 US RE28-729 X11	GB 1457-796 X50 IL44-065 Y16	CS 7500-492 D01	24428-X ADEJ BE -833-500 X14
N 6908-968 F 734-395	GO!	NL -163-211 C13+	CA -989-756 X24 IT 1047-890 D01	DE 2315-646 U43 FR 2182-921 V06+	CA 1021-795 Y50 IT 1047-925 D01	CH -589-140 Y29 CA 1016-483 Y37	59038-W DJ	NL 7412-381 X15
1045-476	C28	US 4226-892 C43+ IT 1047-883 D01+	60023-T D	J4 9013-371 V15+ GB 1431-057 X15+	17383-V AD	SU -539-538 A03	DE 2409-269 W36 NL 7501-830 W37	DE 2541-462 X15 FR 2285-175 X27
5 1929-355	D01		NL 7202-477 T38 DE 2109-363 T39	US 4029-701 Y25	BE -806-519 V10+	CS 7400-699 B14 RO64-564 D01	SE 7501-992 W42 FR 2261-798 W50	J5 1059-769 X28 BR 7506-065 X34
		S	US 3842-963 V44	US 4031-258 Y26 CA 1028-195 A14	NL 7314-587 V19+ DE 2352-905 V20+		DS 2409-269 X06 US 3984-329 X42	GB 1485-346 Y36 CH -597-902 A19
H		07613-S AD	GB 1386-125 W10 CA -965-116 W15	CA 1028-319 A14 IT 1047-918 D01+	FR 2204-369 V35+ J4 9100-266 V47+	W	GB 1486-345 Y38	US 4081-516 A20 SU -623-498 B27
384-H BCD	O00	NL 7010-413 S04 DE 2034-761 S12	DS 2109-363 D01	65215-U DE	ZA 7308-267 V40	01885-W DE	J8 0047-928 D01	IT 1047-545 DO1
B 1207-656	R39	FR 2055-054 S32	79851-T AD	BE -799-519 U43	US 3876-816 W16 GB 1423-700 X06+	US 3856-875 W01 BE -822-990 W25	64177-W ACDE DE 2412-801 W39	24462-X D
\$ 3625-832 4 -908-082	T36	ZA 7004-819 T09 CH -528-262 T50	BE -784-352 T50 NL 7207-625 T51	NL 7306-828 U49 DE 2223-790 U49	IL43-475 X23+ SU -508-160 X52+	NL 7415-867 W25 DE 2457-550 W25	BE -826-737 W40 NL 7502-665 W40	BE -834-403 X14+ NL 7511-951 X18+
2038-987	T40	GB 1309-768 U11 CA -922-195 U12	DE 2226-401 T52 US 3767-791 U45	FR 2184-950 V11 DD -104-069 V15	CA 1011-986 Y26+ CH -591-215 Y41+	J5 0084-554 W36 FR 2253-727 W39	SE 7502-924 W45 NO 7500-725 W46	DE 2545-101 X18+ SE 7511-341 X22+
1923-021	Q01	DS 2034-761 D01	ZA 7203-632 V06 ZA 7308-439 V11	J4 9049-877 V29 CH -558-309 W09	IT 1047-950 D01+	BR 7410-006 X24 GB 1442-954 X30	DK 7501-043 W51	NO 7503-431 X27+ DK 7504-565 X28+
1047-077	DOT	49470-S DE	ZA 7308-440 V11	US 3867-509 W09	17391-V D	CA 1029-035 A16	FR 2263-703 X01 FI 7500-396 X04	FR 2287-420 X30+
R		FR 2052-727 \$30 + US 3676-067 T30	GB 1383-004 W06 GB 1383-003 W06	AT 7304-233 W27 GB 1420-504 X02	BE -806-567 V10+ NL 7314-681 V20+	J7 8010-057 A18 CH -601-144 A28	DD -118-986 X24 US 4042-716 Y34	BR 7506-614 X42+ ZA 7506-083 X44
1168-R DE		J7 3007-999 U11 GB 1320-701 U25	AT 7204-688 W41 CH -569-478 X02	CA -982-713 X07 IL42-272 X23	DE 2353-860 V20+ FR 2204-397 V35+	IT 1025-605 A46 DS 2457-550 D01	HU T013-706 Y37 GB 1496-263 A01	US 4019-983 Y18+ AT 7507-718 Y39+
1 1578-064 B 1197-012		GB 1320-702 U25 US 3819-803 V27+	CA 1009-152 Y19 CA 1019-244 Y44	DS 2223-790 X36 HU T017-595 C07	ZA 7308-238 W02 GB 1443-426 X30+	21382-W ADE I	AT 7501-669 A31 CA 1058-003 B32	GB 1500-317 A06+ IL48-123 A20+
1047-874		IT 1047-884 D01+	DS 2226-401 D01	RO65-488 D01	CH -603-158 A37+	DE 2444-947 W13+ FR 2243-720 W25+	SU -680-616 C16	CA 1055-623 B24+ IT 1047-612 D01+
864-R CD		-		66534-U AD		DK 7404-863 W29+		11 1047-012 0011
1937-693						15 0052 404 V07		24492 V D
2013-797		Т	U	NL 7304-598 U44 DE 2317-484 U45	21039-V ABD BE -804-651 V12+			24483-X D BE -834-552 X14
	R26 R36	10391-T DE NL 7110-511 T07+	05809-U D			GB 1483-088 Y33+ CA 1022-528 A01+ J7 8022-555 A31	US 3912-636 W43 DE 2545-834 Y17+	BE -834-552 X14 DE 2546-004 X18 SE 7511-494 X23
2013- 797 B 1204- 646 1047- 878	R26 R36 D01+	10391-T DE NL 7110-511 T07+ BE -770-782 T07	05809-U D SU -340-149 U05 DD54-671 A08	DE 2317-484 U45 FR 2180-006 V03 J4 9014-647 V15 GB 1407-659 W39	BE -804-651 V12+ NL 7312-525 V13+	GB 1483-088 Y33+ CA 1022-528 A01+	US 3912-636 W43	BE -834-552 X14 DE 2546-004 X18
8 1204-646 1047-878 8 129-R D 11 6910-307	R26 R36 D01 +	10391-T DE NL 7110-511 T07+ BE -770-782 T07 DE 2137-857 T08 J4 7003-848 T10	05809-U D SU -340-149 U05 DD54-671 A08 IT 1047-858 D01+	DE 2317-484 U45 FR 2180-006 V03 J4 9014-647 V15 GB 1407-659 W39 CA -981-183 X04 NL -156-916 A26	BE -804-651 V12+ NL 7312-525 V13+ NL 7312-524 V13+ DE 2345-185 V19+ DE 2345-186 V19+ FR 2198-954 V23+	GB 1483-088 Y33+ CA 1022-528 A01+ J7 8022-555 A31	US 3912-636 W43 DE 2545-834 Y17+ J5 2047-588 Y21+	BE -834-552 X14 DE 2546-004 X18 SE 7511-494 X23 BR 7506-703 X42
8 1204-646 1047-878 8 1204-646 1047-878 8 29-R D 11 6910-307 11 -737-538 11 2015-850	R26 R36 D01+ R08 R08 R36	10391-T DE NL 7110-511 T07+ BE -770-782 T07 DE 2137-857 T08 J4 7003-848 T10 FR 2099-688 T25 US 3792-068 V08+	05809-U D SU -340-149 U05 DD54-671 A08 IT 1047-858 D01+ 16132-U BD DE 2242-699 U12	DE 2317-484 U45 FR 2180-006 V03 J4 9014-647 V15 GB 1407-659 W39 CA -981-183 X04 NL -156-916 A26 IT 1047-919 D01	BE -804-651 V12+ NL 7312-525 V13+ NL 7312-524 V13+ DE 2345-185 V19+ DE 2345-186 V19+ FR 2198-954 V23+ FR 2198-953 V23+ J4 9092-277 V45+	GB 1483-088 Y33+ CA 1022-528 A01+ J7 8022-555 A31 DS 2444-947 D01+ 26084-W DE DE 2349-293 W16 AT 7407-971 X40+	US 3912-636 W43 DE 2545-834 Y17+ J5 2047-588 Y21+ CA 1064-629 B44+ IT 1047-783 D01+ 72769-W CD	BE -834-552 X14 DE 2546-004 X18 SE 7511-494 X23 BR 7506-703 X42 US 4012-808 Y13 GB 1491-576 Y45
2013-797 B 1204-646 1047-878 8629-R D 11 6910-307 11 -737-538 12 2015-850 14 -881-495 1268-697	R26 R36 D01+ R08 R08 R36 S39	10391-T DE NL 7110-511 T07+ BE -770-782 T07 DE 2137-857 T08 J4 7003-848 T10 FR 2099-688 T25	05809-U D SU -340-149 U05 DD54-671 A08 IT 1047-858 D01+ 16132-U BD DE 2242-699 U12 NL 7211-870 U12 FR 2150-984 U24	DE 2317-484 U45 FR 2180-006 V03 J4 9014-647 V15 GB 1407-659 W39 CA -981-183 X04 NL -156-916 A26 IT 1047-919 D01 67801-U DE DE 2319-519 U45	BE -804-651 V12+ NL 7312-525 V13+ NL 7312-524 V13+ DE 2345-185 V19+ DE 2345-186 V19+ FR 2198-954 V23+ FR 2198-953 V23+ J4 9092-277 V45+ J4 9092-278 V45+ ZA 7305-917 V35	GB 1483-088 Y33+ CA 1022-528 A01+ J7 8022-555 A31 DS 2444-947 D01+ 26084-W DE DE 2349-293 W16 AT 7407-971 X40+ DS 2349-293 D01	US 3912-636 W43 DE 2545-834 Y17+ J5 2047-588 Y21+ CA 1064-629 B44+ IT 1047-783 D01+ 72769-W CD DE 2515-364 W44 NL 7504-362 W44	BE -834-552 X14 DE 2546-004 X18 SE 7511-494 X23 BR 7506-703 X42 US 4012-808 Y13 GB 1491-576 Y45 CA 1066-553 B49+ IT 1047-794 D01 24890-X AD
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	37 C47+ 04 C47+					SE 8002-381 C46 GB 2049-471 D01	7700 071 001		
	C4/+								

77368-C				
EP 16-962 C44	DD -143-724 C46	00056-D BCDE DE 2923-339 D01	00360-D D GB 2049-537 D01+	00605-D D US 4238-336 D01
DE 2914-487 C45 FI 8001-111 D01	DE 3021-405 D01 81007-C DEJ	00061-D ADF DE 2923-430 D01	00362-D AD GB 2049-553 D01	00606-D DEH US 4238-337 D01
77465-C BD EP17-381 C44 NO 8000-793 C45	DE 2916-585 C46 EP19-105 C49 BR 8002-484 D01	00068-D D DE 2923-576 D01	00365-D AD GB 2049-604 D01+	00607-D D US 4238-338 D01+
J5 5127-321 C46 DK 8001-172 C46 FI 8000-846 D01	81132-C D DE 3013-904 C46	00069-D D DE 2923-577 D01	00368-D D GB 2049-620 D01	00610-D BDE US 4238-344 D01+
77574-C DF EP17-634 C44	J5 5142-099 C51 GB 2049-723 D01	00074-D D DE 2923-615 D01	00374-D BCD GB 2049-661 D01	00611-D DE US 4238-347 D01
NO 8000-818 C46 SE 7902-651 C46 FI 8000-837 D01	82886-C D DE 3016-707 C47+ GB 2049-722 D01+	00116-D DL DE 2923-862 D01	00377-D D GB 2049-698 D01	00637-D BDE US 4238-392 D01
77575-C ABCD EP17-639 C44	83027-C ADE EP18-717 C47 NO 8000-880 C46	00125-D DJ DE 2923-956 D01	00418-D BCD J8 0047-011 D01	00650-D D US 4238-432 D01
NO 8000-934 C47 SE 7902-893 C47 DK 8001-401 C48	DK 8001-302 C47 BR 8001-822 C49 FI 8000-862 D01	00128-D CD DE 2924-002 D01	00421-D D J8 0047-078 D01	00666-D ABD US 4238-475 D01
FI 8001-026 D01 77579-C D EP17-650 C44			00445-D D J8 0047-869 D01	00667-D AD US 4238-477 D01
AT 7902-639 C44 NO 8001-010 C48 DK 8001-482 C49	GB 2049-422 D01+	00132-D DJ DE 2924-048 D01	00446-D D J8 0047-922 D01	00669-D DE US 4238-483 D01
FI 8001-104 D01 78918-C DE	EP18-839 C47 GB 2048-300 C50 DK 8001-892 D01	00134-D D DE 2924-059 D01	00447-D D J8 0047-923 D01	00680-D D US 4238-509 D01+
BE -882-925 C45 NL 8002-364 C46 DE 3016-109 C46		00143-D D DE 2924-098 D01	00448-D D J8 0047-924 D01	00681-D D US 4238-510 D01
PT71-149 C47 DK 8001-690 C51 BR 8002-575 D01	GB 2048-051 C50 DK 8001-909 D01 NO 7901-481 D01	00151-D BCDE DE 2924-150 D01	00450-D D J8 0047-926 D01	00682-D D US 4238-514 D01
GB 2049-684 D01	84765-C AD DE 3017-221 C48	00153-D D DE 2924-175 DO1		00683-D D US 4238-517 D01
DE 2916-552 C45 GB 2049-428 D01		00162-D D DE 2924-199 DO1		00684-D D US 4238-520 D01+
	NL 7903-623 C48 EP19-326 C49	00165-D D DE 2924-242 DO1	00464-D DL US 4237-559 D01	00685-D BD US 4238-521 D01
GB 2049-720 D01+ 79138-C CD	86357-C DJ WP 8002-458 C48	00180-D D DE 2924-344 D01		
DE 3014-618 C45 GB 2047-699 C49 CS 7902-571 D01	DK 7901-788 D01 86444-C D	00213-D D DE 3008-313 D01	00481-D D US 4237-763 D01+	00706-D D US 4238-566 D01+
79202-C ADG EP17-794 C45	DE 2911-975 C49 NO 8000-886 C46 PT71-009 C47	00214-D D DE 3009-707 D01		00707-D D US 4238-568 D01
NO 8000-954 C48 DK 8001-518 C49 BR 8002-154 C50	DK 8001-223 C47 EP17-064 C49 BR 8001-806 C49	00215-D D DE 3014-549 D01 PT71-137 C47	US 4237-889 D01+	00728-D AD US 4238-604 D01
FI 8001-030 D01 79208-C DE	FI 8000-919 D01 86634-C ADE	00278-D AD DE 3021-775 D01	00503-D AD US 4237-910 D01+	
EP17-827 C45 DS 2913-592 C45 NO 8000-874 C47 DK 8001-422 C48	DE 3018-884 C49 US 4237-288 C51 GB 2049-389 D01	00280-D ADF DE 3021-780 D01	00504-D D US 4237-912 D01	
DE 2913-592 C48 J5 5136-244 C49 F1 8000-904 D01	88368-C BD BE -883-564 C50 NL 8003-171 C51	00281-D ADF DE 3021-781 D01	00536-D AD US 4238-189 D01 00563-D D	
79272-C BD EP18-001 C45	DE 3020-528 D01	00288-D ADJ DE 3022-008 D01	US 4238-243 D01	
BE -882-964 C45 DE 2916-433 C47 GB 2049-681 D01	D 00013-D D	00290-D ADE DE 3022-063 D01+	US 4238-296 D01 00588-D DF	
79863-C D J5 5124-498 C45+	DE 2922-719 DO1 00015-D D	00299-D DE DE 3022-273 D01	US 4238-304 D01	
DE 3010-790 C48+ GB 2049-701 D01+	00021-D D	00319-D D DS 2926-975 D01	US 4238-325 D01+	
80648-C D US 4229-487 C45 NL 8002-537 C47	DE 2922-828 DO1	00326-D BD GB 1581-832 D01	US 4238-327 D01 00600-D ADJM	
DE 3013-085 C48 GB 2048-198 C50 DK 8001-726 D01	DE 2923-100 D01 00045-D AD DE 2923-197 D01	GB 1581-859 D01	US 4238-329 D01+	
8R 8002-634 D01 80714-C DEJ BE -883-046 C46	DE 2923-187 DO1 00046-D AD DE 2923-188 DO1	00347-D D GB 2049-454 D01+	00603-D ADJ	
NL 8001-823 C47 SE 8003-310 C51 DK 8001-799 D01	DC 2720*100 DUT	GB 2049-455 D01+	US 4238-334 D01+	
GB 2049-951 D01				

SECTION	D WK.DOT Paletti Nottibe							BR 7
		CS 7904 * 881	C00010	DE 3020		FI 8000		
3314C D	15J01M11	- 001	C03D13	= 528 88368C I	B04D16		7574C	D15F09
		CS 7905		DE 3021				B04D16S03R1
D D	18		D16	= 405 80810C	C03D13	= 862 8 = 873 7		A96D21E19 C03D22E17+P3
			D B04D16 D C03D13	- 302 /33100	D13105Q/+K1	= 881	73479C	B04D16
OSIBC A	,96D22P3	* 759	COSDIS	* 775 00278D	D18E33P1	= 904 7 = 919 1		D25E12
325160		* 980	B04D16	* 780 00280D	A97D13 A11D12F01	= 944		A97D12Q3
	25523	CS 7906		* 781 00281D	A11D12F01	= 973		B02C02D16
77063C L	025E33 016E17J01 Q97D15E13M14 021E24 011 + Q3	=014 205830	C C03D22E14G02+P3	DE 3022		FI 8001		
64217C A	197D15E13M14	* 131	D D16	* 008 00288D	A97D17J01 A97D16E17	= 003	75321C	D25E11
78918C	021E24	* 173	D D13	* 063 00290D	A97D16E17	= 025		B04D16
80648C L	011+Q3	* 192	D D16	2/3 002990	D15E36	= 026	75331C	A96B04C03D22 + P3
0		* 243	D D16 D D16J01	DK 7901		= 030	79202C	A97D18G03P1
52764W [017E13	* 286 * 403	D B02D16K08S03 D D13	=788 86357C	D13J04S03R1 D12	= 035		A96B04D16
			D D16J04	# 831 090000	012	= 0/2	75330C 77579C	
64177W	A97C03D13E17+P1		D D16	DK 8001		=111	77368C	A96B04D16+R1
		* 681	D D18	= 726 80648C	D11+Q3 D15E36J03S03R1	= 137	75619C	D16
3 00810X	A35D12Q3	CS 7907		= 892 83071C	D23	GB 158	1	
61579X	C03D13+P1P6Q2		D D18	=909 84727C	D23 D12			B04D16
			D D15 D D16			= 841 * 859		A97B07D13
25588Y	D15J01	* 203	D D16	= 355 41511F	B04D16	= 900	76250A	D13
233001		* 255	D D16		STORES MOTESTE	= 905	67131A	D22P3
02	D1 4D7		D D16 D D15J03	DS 2034 = 761 07613S	A25D22P3	# 906	21993B 31554B	
77794Y	D14P7 B02C02D16	304	D 13303	-/01 0/0133	72302273		84363A	
/8830T	DOLOGIE 10	CS 7908		DS 2109			79282B	
03	20401410400201	* 569 * 572	D D18 D D18	= 363 60023T	D11+Q3	GB 158	2	
81194Y	B04D16J04S03R1 B05D16	* 575	D D13	DS 2147		= 005	63110Y	C03D15+P3
431/31	505010	* 676	D D15	= 153 23267T	D13	#017	57918Y	D15+P1
704	A04804D00101	CS 7909		DS 2226		= 039	15919A	A96B05D21E19 D25E19F06
7 02050A	A96B04D22J01 B03C02D16	* 206	D B04D16	= 40 1 79851T		= 042	12264A	B05C03D13E24
5 76561A	B04D16	* 557	D D16	20040				D22Q3+P3 B04D16
3 D	D13	CS 8000		DS 2349 = 293 26084W	D25E12		72762A	D13P1
2 08318A	C03D13E35	* 317	D D15E19			= 130	06746A	D25M28X25
705		= 372 5843	5B B01D16	DS 2444	A88D16E37J01		04174A 02159B	
1 10256A	B04D16+P1	= 373 5843	5B B01D16	=94/ 21382W	A88D10E3/JU1	= 200		A97D25E16
7 14040A	C03D13E19	= 375 5843	55 B01D16 55 B01D16 55 B01D16 52 B03C02D16	DS 2457		00.00	•	
706		= 376 5843	5B B01D16	= 550 01885W	D23E14	GB 204 = 388	67991C	D13P4
	D13	= 429 9317 * 648	2A B03C02D16 D D14	DS 2559		= 389	86634C	A97D13E13
707		040	0 014	=606 29417Y	A94D22F09P2	= 390	84541B	A97D12E19
	D25E19	CS 8001		DS 2618		= 392	56909C	A96B03D21E13
51 38493A	D25E12	* 352	D D17	=613 81356Y	A96D22P3+P4	= 421	0,0,10	DOODZIEI
1804		DE 2167		200/0/		= 422		D23E13 A96D21
52 D	D15	= 274 3384	9T D15	DS 2656 659 44284A	D13P1	= 426	73850C	D16
10088B	D18E33	DE 2015		-007 442011		= 428	79057C	
805		# 627 7510	7B A96D22P3	DS 2704	D21E33	* 454 * 455	00347D	D14
17 89779A	D17L02			= 850 D8YD8A	021633	= 457	67763C	C04D16E17H06+P1
2 897044	D18F09P1	DE 2922 * 719,0001	3D D15	DS 2711	CONTRACTOR OF THE PARTY OF	= 460	68072C	D15+P7
3 [0 018	* 761 0001	5D D15	= 528 72776Y	D15	= 470	73795C	D15+Q5
806	D15 D18E33 D17L02 D18F09P1 D18 D15E19M14 D15J01	* 828 0000	21D D15	DS 2726		= 471	56944C	D22P3
0 220788	D15E19M14	DE 2023		= 056 90553Y	D23E14	* 537	00360D	A88D15J01
	015301	* 100 000	40D D14	DS 2758		* 553	00362D	A96D22P7
107	D17L02 D18F09P1 D18 D15E19M14 D15J01 C03D13 D15H03 A B03C02D16 C03D13 D17E13 B D18+P7Q7 A A87D18E19F06 D D13P5 D D15 B B01D16 C C03D13 D D15E14 D D22P3 D B04D13 D D16 BC C02D16 FC B05D16E19 D C03D13	* 187 000	45D A97D12Q3	= 216 48191A	A96D22P3	* 604	00365D	A92D11Q3
407738	C03D13	* 188 000	56D B02C02D13E13	20000		= 620 = 648	72785C	D12P4
	DISHUS	* 430 000	51D A14D22F01	= 022 64839B	D16J01	= 649	48022C	D15
08		* 576 000	68D D15	-022 040070	THE THE HAST OF	* 661	00374D	B05C03D22
44050	A B03C02D16	* 615 000	74D D21	D\$ 2830	D15E36J01K05	= 670	77301C	B05D16E16
1000	D D17E13	* 862 001	16D D21L02P3	= Y/Z 02103A	3.02300000	= 681	79272C	B02D16
49248	B D18+P7Q7	* 956 001	25D D15J04S03K1	DS 2835	D1504	= 684 * 698	78918C 00377D	D21E24
49263	8 A87D18E19F06	DE 2924		=709 149330	. 01544	=700	017270	A96B04D16+Q7
00		* 002 001	28D C03D13	DS 2852		=701	79863C	D16 B04D16
	D D13P5	* 006 001	32D D15J04S03R1	= 587 456858	B05D23E1/	= 702	734690	B05D16
56512	B B01D16	* 059 001	34D D12	DS 2926		# 705	82842B	A97D13
60623	C C03D13	* 098 001	43D D14Q6	* 975 003190	D12X25P4	= 720 = 722	828860	D25
))		* 150 001	53D D16	EL 7000		= 723	811320	D25
	D D15E14	* 199 001	62D D14	= 891 700280	C03D13	=724	87781B	D17 D15E32M25P3
	D D22P3	* 242 001	65D D13	F1 7001		= 753	807140	D15E36J03S03R1
	D B04D13	* 344 001	80D D16P1	# 085 29676B	3 A96D21	# 963	020980	D12S02P4R1
	010			= 101	D11	IT 104	7	
7010	90 0000	DE 2940	503C A96D21	* 165	D15H03	= 535	32204X	A97D25
7357	7C B05D14F19	= 909 340	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	# 224 013900		= 545	24428X	A91D15E13J01
	505570217	DE 3008	120 D12	FI 8000	D25E10	= 609	29463X	D25E37
3	D C000:-	* 313 00:	2130 013	= 526 552570	D25E19	=612	24462X	D15P3
	C03D13	DE 3009		= 776 715500	C D13	=618	26320X	C D22E17 + P3 C A88D15J01
4		* 707 00	214D D15	= 793 700360 = 807 700610	C D11	= 642	28693X	(A88D15J01
1 0				= 807 700610 = 816 739640	C D15	# 676	72769V	W C03D13
	D D11	* 549 00	215D D22S05T06R2+P3		- 1			
100	010					100000		

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PT --71
= 137 00215D D22S05T06R2+P3
  IT 1047
   =683 69419X B04D16
   = 684 30361X D25E11
                                                                                       RO --64
  = 698 30141X A97D12+P4
= 700 30352X A11D12+Q3
                                                                                      = 564 59392V B04C03D13+P3
   =704 07193X A96D16S03S05+R1
 = 704 07193X A96D16S03S05+R1

= 707 24890X A11D13

= 708 30354X A11D12

= 709 30353X A11D12

= 719 32166X A82D18F08G02P4

= 720 26477X D22P2

= 721 82924W A96D22P2

= 736 81151W D22P2

* 755 D B04D16

= 758 47688W B02C02D15

# 783 72326W D15J01

= 794 24483X D12P2+Q3

= 830 33793X D15

= 843 34323X D13

* 855 D D22P3

= 856 31865F B04D22

# 858 05809U D16

= 859 37991U D13E36

= 862 63957R D13

= 863 30711F B04D13

# 874 04168R D11E19

= 875 15503R D13

= 877 08384H B04C03D16

= 879 11629R D15

= 880 3823R B05C03D23E15+P1

= 884 49470S D15527
                                                                                     RO --65
= 488 65215U D15E34+P3
= 918 52431W C03D13E33
  =707 24890X A11D13
=708 30354X A11D12
=709 30353X A11D12
                                                                                     RO --66
                                                                                     =047 38406Y D23

*936 D D15

*955 D D15L03M11
                                                                                      RO --67
                                                                                    * 001
* 432
* 739
* 777
                                                                                        * 001
                                                                                                            D 804D16
                                                                                                      D D22E24
D A82D18
D D18S03R1
D D15E36J04S03R1
                                                                                      * 893
                                                                                     RO --68
* 324 D D18X25
US 4237
* 559 00464D D22L02P3
# 580 63417B D12
                                                                                     =581 36898C D12
                                                                                     = 571 08023Y A88D15J01L03
= 590 52664B D15J01
* 604 00728D A11D13
   = 248 65987C B04D16
  = 364 67764C C04D16E17H06+P1
= 365 67763C C04D16E17H06+P1
= 366 85611C A41C04D15E16
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